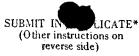
Approved by.....

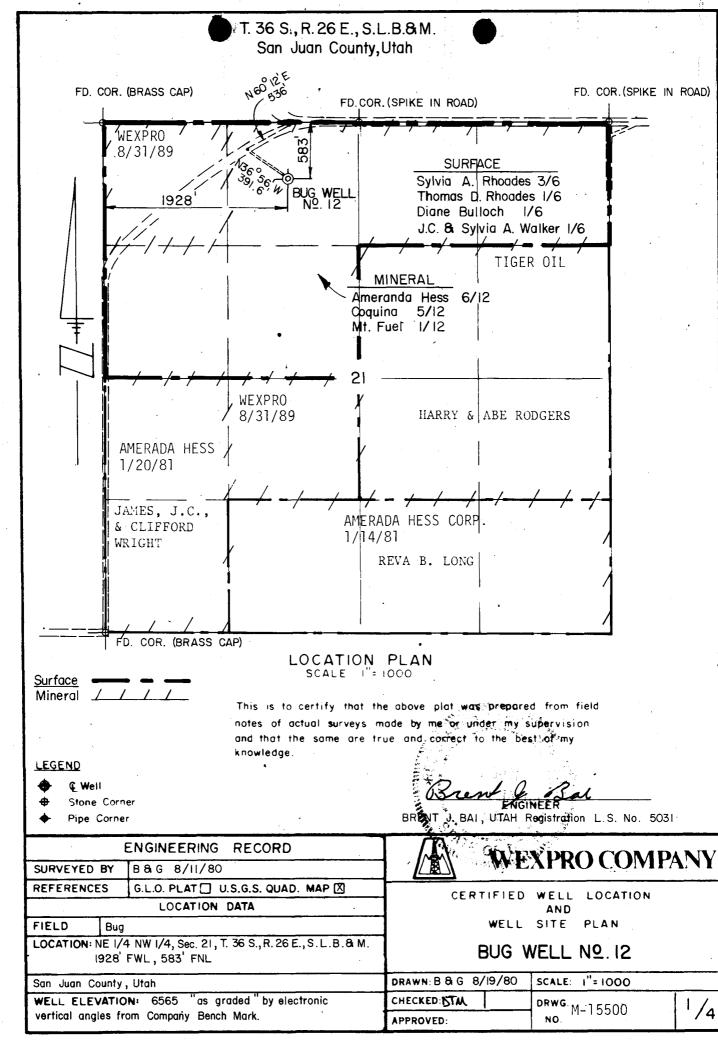
Conditions of approval, if any:





Di	STATE OF PARTMENT OF NAT			er instructions on reverse side)	•	
	DIVISION OF OIL, G			· —	_	gnation and Serial No. Fee
	FOR PERMIT TO	DRILL, DEEPE	N, OR PLUC	3 BACK	6. If Indian,	Allottee or Tribe Name
1a. Type of WorkDRILIb. Type of Well	- x x	DEEPEN [PLUG	BACK 🗌	7. Unit Agree	ment Name
Oil Gas Well KX Gas We 2. Name of Operator	Other		Single Zone	Multiple Zone	8. Farm or L	ease Name
Wexpro Comp	any				9. Well No.	
	.29, Rock Spring					Pool, or Wildeat
At surface	t location clearly and in ac				Wilde	
	NW 1/4 S. 21, T Utah, 583' FNL		San Juan Co	• -	and Surve	R., M., or Blk.
M. Dietango in miles and	direction from nearest town	On post office	-			.36S., R.26E.
					12, County or	•
15. Distance from proposed	to Dove Creek,		of acres in lease	17. No. of	San Jua	
location to nearest property or lease line, (Also to nearest drig, ii	ft. ne. if any) 583'	•	320	to this	well	
18. Distance from proposed to nearest well, drilling	location Bug / TD	6370', NE 19. Pro	posed depth	20. Rotary	or cable tools	
or applied for, on this	lease. ic. SW S.16,T	.36S.,R.26E.	ون 6395	- 12	Rotary	•
21. Elevations (Show wheth	er DF, RT, GR, etc.)		- 4	حبر 💮	22. Approx.	date work will start*
GR 6600'					Upon	approval
23.	P	ROPOSED CASING AND	CEMENTING PRO	GRAM		
Size of Hole	Size of Casing	Weight per Foot	Setting Depth			of Cement
12-1/4"	9-5/8"	36#	2045			"G" cement w/3%
8-3/4"	5-1/2"	17#	6395'	To be det	ermined	from caliper lo
Wexpro Comp	any proposes to	drill the subj	ect well to	a total d	epth of	6395'.
DATE GAS	SONO ME DO	CISTON OF OR	1 18 19		. •	
IN ABOVE SPACE DAductive zone. If proposal preventer program, if any. 24. Signed.	ABE PROPOSE ARCA OF THE PROPOSE A GIVE A GIV	ally, give pertinent data		tions and measure	ed and true v	zone and proposed new pro- ertical depths. Give blowou te 9/2/80
(This space for Federal	or State office use)		Topics			
Permit No. 43	-137-30595		Approval Date	91.	5/80	

Date.....



FILE NO.

SHEET | OF 4

WEXPRO COMPANY BUG WELL NO. 12 LEASE NO.: FEE NE NW SECTION 21, T.36S., R.26E. San Juan County, Utah 10-Point Plan

- 1. The surface formation is Morrison.
- 2. Estimated tops of important geological markers are:

Morrison	Surface
Entrada	1120'
Carmel Carmel	1260 '
Navajo	1310 Y
Chinle	1970'
Shinarump	2705 '
Cutler	2975 '
Honaker Trail	4660 '
Paradox	5355 '
Upper Ismay	5825 '
Lower Upper Ismay	6005'
(Base 2nd Shale)	
Lower Ismay Shale	6055 '
Lower Ismay Porosity	6180!
"B" Zone	6200'
Desert Creek	6255 '
Lower Bench	6295 '
Desert Creek Porosity	6305'
Salt	6390 '
Total Depth:	63951

Objective Reservoir:

Lower-Upper Ismay 6,005'
Desert Creek Porosity 6,305'

Other Possible Producing Zones:

Honaker Trail, 4,660'

Lower Ismay Porosity, 6,180'

3. Estimated depths of anticipated water, oil or gas or other mineral bearing formations expected to be encountered:

No water flows anticipated. Surface casing is designed to protect aquifer in the Navajo sandstone.

Oil or gas expected in Objective Reservoir -- Lower-Upper Ismay, 6005' & Desert Creek Porosity, 6305'. Also, the Honaker Trail, 4660', and the Lower Ismay Porosity, 6180', may be productive.

No mineral bearing formations anticipated.

4. Casing Program:

Proposed	Footage	Size	Grade	Weight	Condition	Thread
Surface	2045 ¹¹	9-5/8"	K-55	36#	NEW	8rd ST&C
Production	6395 ¹¹	5-1/2"	K-55	17#	NEW	8rd LT&C

Wexpro Company
Bug Well No. 12
Lease No.: Fee
NE NW Section 21, T.36S., R.26E.
San Juan County, Utah
10-Point Plan

Page Two

Cement Program:

Surface: 940 sacks of Regular Type "G" cement plus 70% excess cement treated with 5% Dowell D-43A or 3% Calcium Chloride.

Production: Cement volumes and composition to be determined from caliper logs. Cement to be set 1000 feet above the uppermost productive zone. Cement casing with 50-50 Pozmix A cement.

- 5. Operator's minimum specifications for pressure control equipment requires a 10", 3000 psi annular preventer, and a 10", 3000 psi double gate blowout preventer from the surface to the total depth. See attached diagram. Blowout preventers will be tested by rig equipment after each string of casing is run. All ram-type preventers will have hand wheels installed and operative at the time the preventers are installed.
- 6. Fresh water with minimum properties from surface to total depth. Spud mud will be used for the surface hole. A mud de-sander will be used from under the surface casing to total depth to remove all undesirable solids from the mud system and to keep the mud weight to a minimum. The mud weight will be brought up to 11.7 ppg before drilling into the Desert Creek Zone at 6255'. Mud weight will start to increase at 6100'.

A fully manned logging unit will be used from 4500' to total depth. The contractor will catch 10' samples from surface to 4500'.

Sufficient mud materials to maintain mud requirements and to control minor lost circulation and blowout problems will be stored at the well site.

- 7. Auxiliary equipment will consist of:
 - 1. A manually operated kelly cock.
 - 2. No floats at bit.
 - 3. Mud will be monitored visually from 0' to total depth.
 - 4. Full opening Shafer floor valve manually operated.

8.	Five drill stem tests:	(1 & 2) Honaker Trail	4660'
		3) Lower Upper Ismay	6005'
		4) Lower Ismay Porosity	6180'
		5) Desert Creek Porosity	6305 '

Cores: 60', Desert Creek Porosity, 6305'

Mechanical Logs: 1. Dual Induction Lateralog from total depth to surface pipe.

2. Compensated Neutron-Density Log with caliper and Gamma Ray from total depth to surface pipe. Run Gamma Ray and CNL to surface.

3. Continuous Dipmeter from total depth to 4395' (minimum run). Run Gamma Ray correlation log with Dipmeter.

Wexpro Company
Bug Well No. 12
Lease No.: Fee
NE NW Section 21, T.36S., R.26E.
San Juan County, Utah
10-Point Plan

Page Three

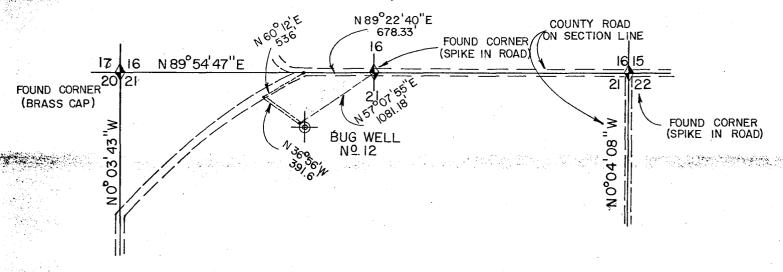
During drill stem testing or when a completion rig is completing a well, some flaring of natural gases or produced gases will be necessary.

- 9. No abnormal temperatures or Hydrogen Sulfide is anticipated. No abnormal pressures anticipated except the Desert Creek Porosity at 6305'. The pressure will be controlled with a mud weight of 11.7 ppg before drilling into the Desert Creek Porosity Zone.
- 10. The anticipated spud date is upon approval from the State of Utah.

 Duration of drilling will be approximately 25 days with 2 days completion.

AREA MAP
FOR
BUG WELL LOCATIONS

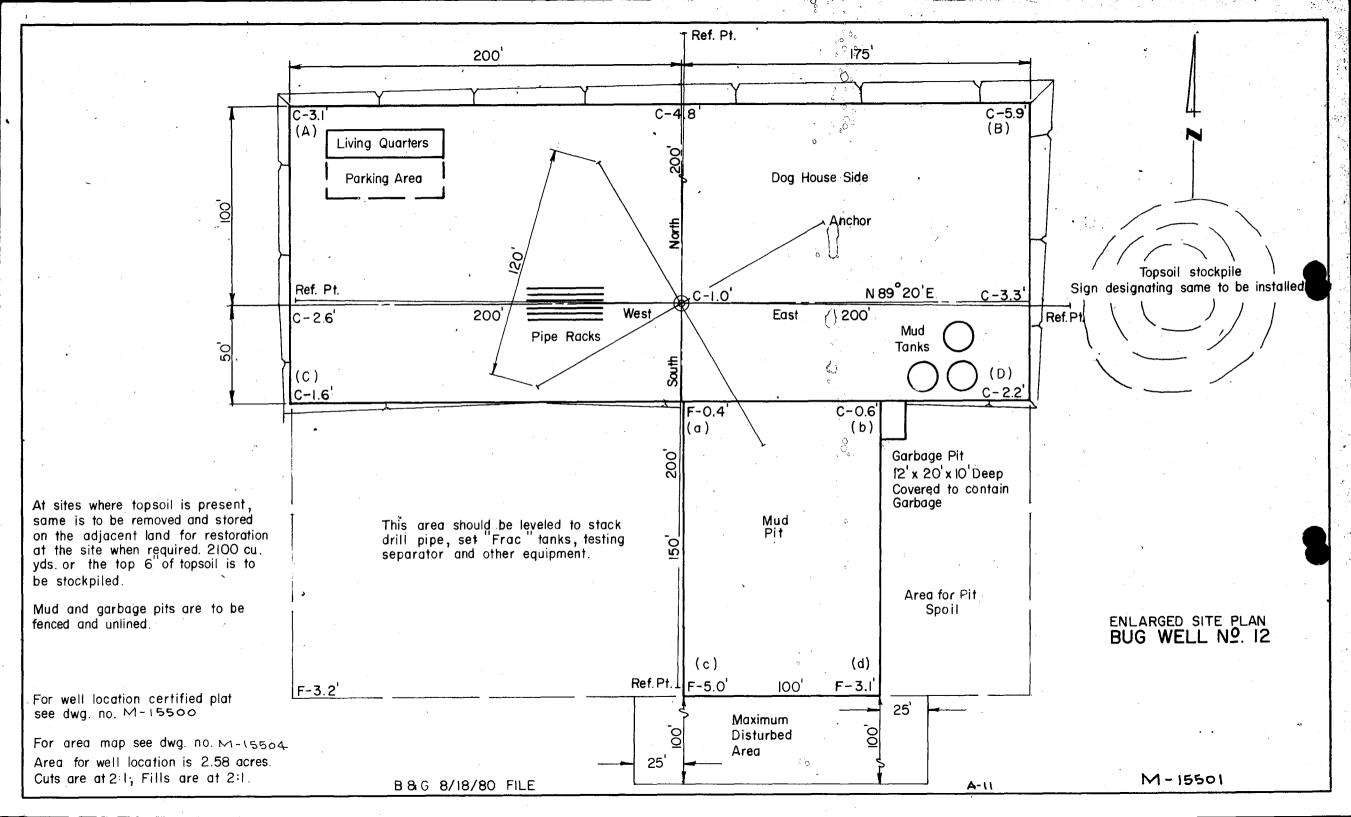
T. 36S.,R.26E.,S.L.B.&M. SAN JUAN COUNTY, UTAH



P.1. STATTUNS:	BEAKING:	TABULATIONS:
1. 0 + 00 2. 3 + 91.6 3. 9 + 27.6	N. 36° 56' W. N. 60° 12' E.	Sylvia A. Rhoades Thomas D. Rhoades Diane Bulloch J. C. & Sylvia A. Walker
		927.60 feet

PROPOSED ACCESS ROAD
BUG WELL NO. 12

56.22 rods 0.18 miles



DATE: Sept. 2/ 1980
OPERATOR: Verpro Company
WELL NO: Bug 12
Location: Sec. 21 T. 368 R. 26E County: San Juan
File Prepared: The Entered on N.I.D:
Card Indexed: Completion Sheet:
API Number <u>43-037-30595</u>
CHECKED BY:
Petroleum Engineer:
Director: OK Rule C-3 well also fits patterson
21 mot collect in France would therefore
Administrative Aide:
APPROVAL LETTER:
Bond Required: Survey Plat Required:
Order No O.K. Rule C-3
Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site
Lease Designation Dec / Plotted on Map/
Approval Letter Written Hot Line P.I. P.I.
, , , , , , , , , , , , , , , , , , ,

September 10, 1980

Wexpro Company
P.O. Box 1129
Rock Springs, Wyoming 82901

Re: Well No. Bug #12
Sec. 21, T. 36S, R. 26E.,
San Juan County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer

Office: 533-5771 Home: 876-3001

Ehclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30595.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cleon B. Feight Director

/btm

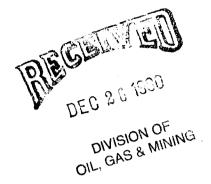
DIVISION OF OIL, GAS AND MINING

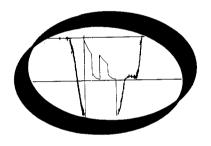
SPUDDING INFORMATION

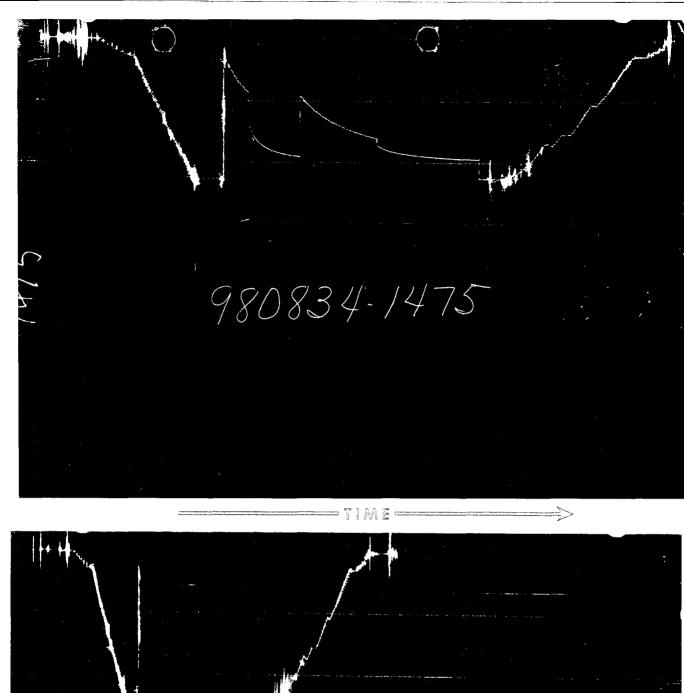
NAME OF COMPANY: WEXT	RO COMPANY				
WELL NAME: BUG #12			***		
SECTION 21 TOWNS	HIP <u>36S</u>	RANGE	26E.	COUNTY_	San Juan
DRILLING CONTRACTOR AC	lwestern				
RIG #3					
SPUDDED: DATE 11-30-8	<u>o</u>				
TIME 12:01	<u>A.M.</u>				
HOW Rotary					
DRILLING WILL COMMENCE	11-30-80				
REPORTED BY Paul Zubato	h				
TELEPHONE # (307) 362-	5611 EXT. 263		•		

DATE Delmber 1, 1980 SIGNED Garbara Hice

Formation Testing Service Report









Each Horizontal Line Equal to 1000 p.s.j.

FLUII				12- Date	-13-80	Ticket Number	98083		Legal L Sec T	
Sampler Pressure	220	P.S.1.G.	at Surface K	ind OPI	EN HOLE	Halliburto Location	Pn FARMIN	GTON	Location Twp Rng.	
Recovery: Cu. Ft. cc. Oil		· · · · · · · · · · · · · · · · · · ·	<u> </u>	MD	. WRIGHT		**************************************		ຊື່ກ່ອ ອຸ	Le
cc. Wate	er 250	00		ester	. WKIGHI	Witness				Lease
cc. Mud				Orilling ALI	LWESTERN	III		bc		se Z
Tot. Liq				Contractor						Name
Gravity						T & HOLE Honaka Trai	DATA			
Gas/Oil :Ratio				ormation Tested		6565'		Ft.		
			ITENT	Net Productive Ir		5048' - 507		0' Ft.		
Recovery Water	ו ייסר	@ <u>62</u> • _F . <u>24</u> @ <u>65</u> • _F . <u>1</u>	,050 ppm 7	All Depths Measu	red From	Kelly Bush	ing	<u> </u>	21	·
Recovery Mud				otal Depth		5078' 8 3/8"		Ft.	,	!
Recovery Mud Filt				Main Hole/Casin		637' I.D.	2.56"		36	
Mud Pit Sample		<u>66</u> ∘ _F	· · · I -	Orill Collar Leng Orill Pipe Length		4374.5' LD			S	Well No.
Mud Pit Sample F	iltrate	<u> </u>		acker Depth(s)_		5038.5' - !		Ft.	'.	Ş
Mud Weight		vis		Depth Tester Val		5021.5'		Ft.	26E	
TYPE	AMOUNT		Depth Back		Surface	Bott	tom	**		
Cushion		Ft.	Pres. Valve		Choke 1/4"	ADJ. Cho	oke . 75			- kg
Recovered 3	400 Fee	et of Salt	water					Mea.	Field Area	Test No.
Recovered	Fee	et of						From		
Recovered	Fee	et of	TOP O	F FLUID	1.39 @ 6	55 ⁰		Tester	BUGFIEL	
Recovered	Fee	et of	BOTTO	_	.063 @	62 ⁰	· 	Valve	IELC	0044.
Recovered	Fee	et of							_	1 .10
Remarks	SEE PI	RODUCTION T	EST DATA	SHEET.	····					Tested Interval
										nterval
				<u>,, , , , , , , , , , , , , , , , , , ,</u>					County	
									L	
	Gauge No.	1.000	Gauge No.]	O.F.	Gauge No.			ME	SAN	
TEMPERATURE	1 7	1475 5026.5' _{Ft.}		03 073.5' _{Ft.}	_	Ft.		4:00 hrs.)	NAU	
	Depth:	12 Hour Clock		4 Hour Clock	Деріп.	Hour Clock	Tool		1 =	.
Est. °F.	Blanked Off	No	Blanked Off		Blanked Of	f	Орстиса	235	1	
			D		D.	essures	Opened Bypass 0	1335		
Actual °F.	Field	SSURES Office	Field	office	Field	Office	Reported	Computed	1	=
Initial Hydrostatic	2307	2271.5	2276	2289.0	1,0,0		Minutes	Minutes	<u> </u>	gse
11-1	84	332.6	90	232.0					State	O M
Flow Final	858	872.4	907	896.6			30	29	18	er/C
Closed in	1908	1913.8	1918	1930.5			60	61	-	dwo
Flow Initial	900	922.6 1613.4	949 1623	953.5 1629.4			90	93	HATU	V Qny
Flow Final Closed in	1593 1908	1953.7	1918	1972.6			120	123	1 ₹	Lease Owner/Company Name
Initial	1300	1	1.2.0					<u>-</u>	1	ĕ
Flow Final]	
Closed in				0004.0					_	
Final Hydrostatic	2244	2265.2	2255	2284.8					4	
	1	i i	1	1	I .	i	I	1	ī	1 1

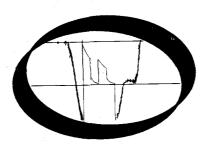
Can annuit			Bottom c	6 3/	G	40 980834 urf. temp*F Ticket No
Spec. gravi	ty		Chlorides	<u> </u>	ppm	Res
INDICATE	TYPE A	ND SIZE	OF GAS MEASU	JRING DEVICE US	SED	
Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
0815						On location
1830						Picked up tools
2000						Tools on trip in hole
2230						On bottom, set`weight on tools
2235					·	Tools opened
2236	······································					Fair blow, to bottom of bucket
2240						½ PSI, fair blow
2245						II
2250						Н
2255						II
2300				· ·		II
2305						Closed tool with a fair blow
0005						½ PSI, fair blow
0006			,			n
0020						н
0035				·		п
0050						n
0105						11
0120			·	·		H
0135						Closed tool with a fair blow
0335					`	Pulled off bottom, tools draging 20
						stands off bottom, drill pipe full of
						fluid, 3400'
0800						Tools out of hole

	Gauge No.		1475		Depth	502	6.5'	Clock No	. 104	44	12 hour	Ticket No.	980834		
	First Flow Pe	riod	First Closed In Pressi		First losed In Pressure		Second Second Flow Period Closed in Pressure		Th Flow F	Period		Third osed In Pressu			
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$Log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$Log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$Log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.0000	332.6	.0000		872.4	.0000	922.6	.0000		1613.4					
1	.0257	418.4*	.0452		1621.8*		1132.3*	**.0583		1794.1					
2	.0577	533.4	.0840	·	1707.9	.1800	1262.6	.1166		1827.7					
3	.0898	635.9	.1227		1762.5	. 2636	1361.3	.1750		1855.0				-	
4	.1219	725.9	.1615		1804.6	. 3472	1441.1	.2333		1871.8					
5	.1539	805.4	.2002		1834.0	.4308	1510.4	.2916		1888.6			1		
6	.1860	872.4	.2390		1857.1	.5144	1567.2	.3499		1903.3 1911.7					
7			.2777		1876.0	.5980	1613.4	.4082		1911.7			<u> </u>		
8			.3165		1888.6			.4665		1920.1					
9			.3552		1905.4			.5249		1926.4					
10			.3940		1913.8			.5832		1932.7					
11								.6415		1939.0			1	<u> </u>	
12								.6998		1945.3					
13								.7581		1951.6		* .			
14								.7970		1953.7	***				
15															
	Gauge No.	10			Depth	5073.		Clock No			24 hour		· · · · · · · · · · · · · · · · · · ·	T	
0		232.0	.0000		896.6		953.5	.0000	<u> </u>	1629.4			<u> </u>		
1		440.9*	.0235		1631.5*		1147.3*			1814.7			 		
_2		550.6	.0437		1722.1	.0936	1280.0	.0601		1852.6			 		
3		658.2	.0639		1778.9	.1371	1381.0	.0902	<u> </u>	1875.8			1	ļ	
4		746.8	.0840		1821.0	.1806	1463.1	.1203		1892.6		· · · · · · · · · · · · · · · · · · ·	1		·
5		831.2	.1042		1848.4	.2241	1530.5	.1504		1907.3			 		
6	.0960	896.6	.1243		1873.6	.2675	1583.1	,1804		1920.0		<u> </u>	 		
7			.1445		1890.5	.3110	1629.4	.2105		1930.5	ļ		<u> </u>		
8			.1647		1907.3			.2406		1938.9					
9			.1848		1922.1			.2707		1947.3			 	 	
10			.2050		1930.5			.3007		1953.7	ļ		 		
11								.3308		1957.9					
12								,3609		1964.2					
13					* .			.3909		1970.5			 		
14								.4110		1972.6	***		<u> </u>		
15													-		
Re	ading Intervo	1 5		6			13]	9		<u></u>	· · · · · · · · · · · · · · · · · · ·	1		Minutes
RE	MARKS:	*Interv	a1 = 4 m	inutes :	**Interva	a1 = 7 m	<u>inutes</u>	***Inter	val = 15	minutes	****In	terval	= 6 minu	tes	
														-	

TICKET NO. 980834

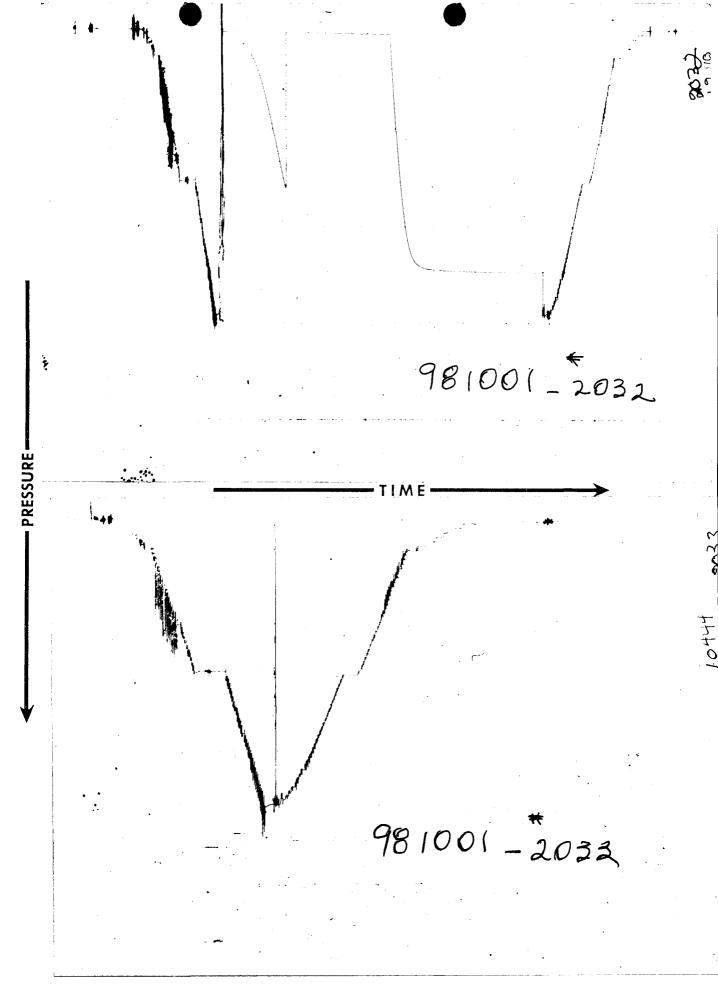
7	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				i .
Drill Collars				
<u>. 18</u>	6"	3"] '	
Reversing Sub Water Cushion Valve Drill Pipe Drill Collars Handling Sub & Choke Assembly Dual CIP Valve Dual CIP Sampler				
Drill Pipe	4½"	3.826"	4374.5	
Drill Collars	6"-7"	2.56"	637'	
Handling Sub & Choke Assembly	L 11	3"	2'	
Dual CIP Valve				
Dudi Cip Valve	_ gu	.75"	71	5017.5'
 	E11	.75"	5'	5021.5'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	<u>5"</u>	2.75"	4'	5026.5
Hydraulic Jar	5"	1.75"	5'	
W	E#	יין	31	
VR Safety Joint	5			
Pressure Equalizing Crossover				
	7 0//1	7 500	61	E020 E1
Packer Assembly		<u> 1.53"</u>		5038.5'
Distributor				5044 51
Packer Assembly		1.53"	6'	5044.5'
Flush Joint Anchor Pressure Equalizing Tube				
Blanked-Off B.T. Running Case			:	
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly		-		
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor		3½"	23'	
Blanked-Off B.T. Running Case	5 3/4"	2½"	4.5'	5073.5' 5078'
Total Depth				

Formation Testing Service Report



PRODUCTING

HALLIBURTON SERVICES

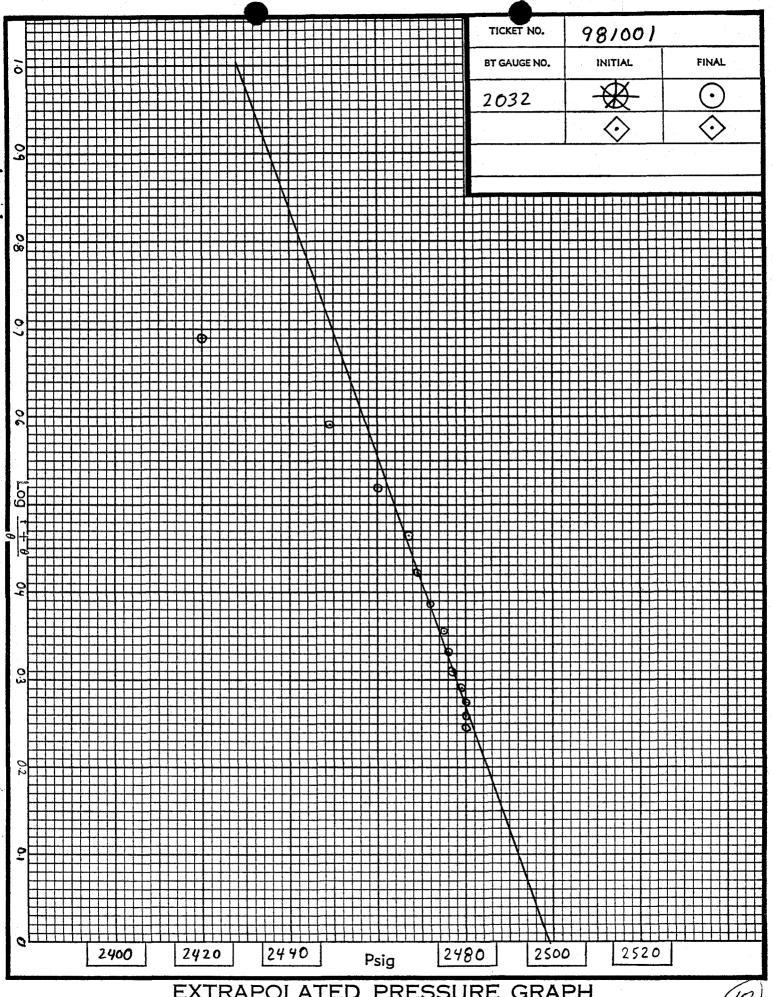


Each Horizontal Line Equal to 1000 p.s.i.

Casing perfs.		Bottom	choke		Surf. temp°F Ticket No981001					
Gas gravity		Oil grav	rity		74' ^{Rec} CHOKE					
Spec. gravity	ND CITE	Chloride	UDING DEVICE II	sen Pg	74'KCHOKE					
INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED										
Date 12-22-80 Time a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks					
0550					Arrived on location.					
0730					Making up the tools.					
0950					Going in the hole.					
1256			· .		Opened tool with a light blow.					
1326			· · · · · · · · · · · · · · · · · · ·		Closed tool.					
1527					Opened tool with a good blow.					
1630			· · · · · · · · · · · · · · · · · · ·		Good blow.					
1730			•		Good blow.					
1830			<u> </u>		Good blow.					
1910					Blow was good - 18 PSI					
1927					Blow was good - 18 PSI					
1930			92	,	Closed tool.					
0130			-		Pulled out of the hole.					
0540					Taking sample.					
0710					Out of the hole.					
	·									

		· · · · · · · · · · · · · · · · · · ·								
1			ł	1	Į					

	Gauge No.		2032		Depth	61	39'	Clock No	. 12	218	24 hour	Ticket No.	98100	1	
	First Flow Per	riod	Cl	First osed In Pressu		Sec Flow	Period	Cle	Second psed In Pressu		Th Flow I			Third psed In Pressu	
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$Log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$Log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$Log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0		33.1	.000		25.1	.000	31.8	.000		50.3					
1	.0196	25.1	.394	.096	1613.0	.0898	33.1*	.0731	.360	1463.0	*				
2		23.8				.1696	33.1	.1528	.841	2247.3					
3		23.8				.2494	33.1	.2325	.690	2420.2					
4		23.8				.3292	34.4	.3122	.591	2449.4			 		
5		25.1				.4090	35.8	.3919	.520	2460.1 2466.7 2469.4 2472.0					
6						.4888	38.4	.4716	.466	2466.7					
7						.5686	42.4	.5513	.422	2469.4					
8						.6484	45.0	.6310	.38/	2472.0					
9						.7282	47.7	.7107	.357	2474.7 2476.0 2477.3			 		
10						.8080	50.3	.7904	.332	2476.0					
11								.8702	.310	2477.3					
12	2							.9499	.291	2478.7	[<u> </u>	<u> </u>	
13	3							1.0296	.274	2480.0			 		
14	ļ.							1.1093	.259	2480.0 2480.0 2480.0					
			1		1	1		1.1890	1.246	1 2/120 N	1		łl.	1	ł
15	5		<u> </u>	L		l		11.1000	1	2400.0	L		<u> </u>	لـــــا	L
			2033	<u> </u>	Depth	6194		Clock No)444	hour	. 12	<u> И</u>		<u> </u>
	Gauge No.		2033		Depth	6194 °		//				12			
0	Gauge No.		2033		Depth	6194		//				12			
0	Gauge No.		2033		Depth	6194		//				12			
0 1 2	Gauge No.		2033		Depth	6194*		//				12			
0 1 2 3	Gauge No.							Clock No	o. 10			12			
0 1 2 3	Gauge No.			NO READI			E CI	//	o. 10		hour	12			
0 1 2 3 4 5	Gauge No.			NO READI			E CI	Clock No	o. 10		hour	12			
0 1 2 3 4 5	Gauge No.			NO READI			E CI	Clock No	o. 10		hour	12			
0 1 2 3 4 5 6	Gauge No.			NO READI			E CI	Clock No	o. 10		hour	12			
0 1 2 3 4 5 6	Gauge No.			NO READI			E CI	Clock No	o. 10		hour	12			
0 1 2 3 4 5 6 7 8	Gauge No.			NO READI			E CI	Clock No	o. 10		hour	12			
0 1 2 3 4 5 6 7 8 9	Gauge No.			NO READI			E Cl	Clock No	o. 10		hour	12			
0 1 2 3 4 5 6 7 8 9	Gauge No.			NO READI			E CI	Clock No	o. 10		hour	12			
0 1 2 3 4 5 6 7 8 9 10 11	Gauge No.			NO READI			E CI	Clock No	o. 10		hour	12			
00 11 22 33 44 55 66 77 88 99 100 111 122 133	Gauge No.			NO READI			E CI	Clock No	o. 10		hour	12			
0 1 2 3 4 5 6 7 8 9 10 11	Gauge No.			NO READI		AVAILABL		Clock No	PED		hour	12			
00 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Gauge No.	n 6			NGS ARE	AVAILABL	4	Clock No	ped		hour	12			Minutes
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Re	Gauge No.			NO READI	NGS ARE	AVAILABL	4	Clock No	ped		hour	12			Minutes
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Re	Gauge No.				NGS ARE	AVAILABL	4	Clock No	ped		hour	12			Minutes



Gas Production

B.T. Gauge	Numbers		2032		Ticket Number		981001	*
			PRESSURE	PRESSURE				
Initial Hyd	rostatic		2915		Elevation		6580	ft.
Final Hydr	ostatic		2921			1st Flow	-	MCF
	Initial	Time	33		Production Rate	2nd Flow	92	MCF
1st Flow	Final	30	25			3rd Flow		MCF
	Closed In Pressure	119	1613		Hole Size		8.375	in.
	Initial	Time	32		Footage Tested		3	ft.
2nd Flow	Final	243	50		Mud Weight		9.3	lbs./gal.
	Closed in Pressure	358	2480		Gas Viscosity		.019	ср
	Initial	Time			Gas Gravity	ASSUMED	.62	
3rd Flow	Final				Gas Compressib	oility	.83	
	Closed In Pressure				Temperature		130	° F
Extrapolate	-d	lst						
Static Pres		2nd	2499					
		3rd						
		1st						
Slope P/10		2nd	2428				1	
		3rd		<u> </u>				

Remarks:

1) Unable to determine if depletion indicated due to probable leakage
during the initial closed in and corresponding non development of curve.

S	SUMMARY	B.T. Gauge Depth	No. 2032	6139'	B.T. Gauge No. Depth			
PRODUCT	EQUATION	FIRST	SECOND	THIRD	FIRST	SECOND	THIRD	UNITS
Transmissibility	$\frac{\frac{Kh}{\mu}}{=\frac{1637 Q_r ZT}{m}}$		210.827					md. ft.
Theoretical Flow Capacity	$Kh = \frac{Kh}{\mu} \mu$		4.006					md. ft.
Average Effective	$K = \frac{Kh}{h}$		1.335	·				md.
Permeability	$K_1 = \frac{Kh}{h_1}$		_					md.
Indicated Flow Capacity	(Kh) _s = $\frac{3200 Q_{e} \mu ZT Log(0.472 b/r_{w})}{P_{s}^{2} - P_{r}^{2}}$.636					md. ft.
Damage Ratio	$DR = \frac{\text{Theo. Flow Cap}}{\text{Indicated Flow Cap}} \frac{\text{Kh}}{(\text{Kh})_s}$		6.297					_
Indicated	$OF_1 = \frac{Q_r}{P_8^2 - P_r^2}$ Max.		92.037					MCFD
Flow Rate	$OF_2 = \frac{Q_e - P_B}{\sqrt{P_B^2 - P_F^2}} Min.$		92.018					MCFD
Theoretical	$OF_3 = OF_1 DR$ Max.		579.593					MCFD
Potential Rate	$OF_4 = OF_2 DR$ Min.		579.477					MCFD
Approx. Radius	b $\simeq \sqrt{Kt}$ or $\sqrt{Kt_0}$		19.441					ft.
Investigation	$b_1 \subseteq \sqrt{K_1 t} \text{ or } \sqrt{K_1 t_0}$		_					ft.
Potentiometric Surface *	Pot. = $(EI - GD) + (2.319 Ps)$							ft.

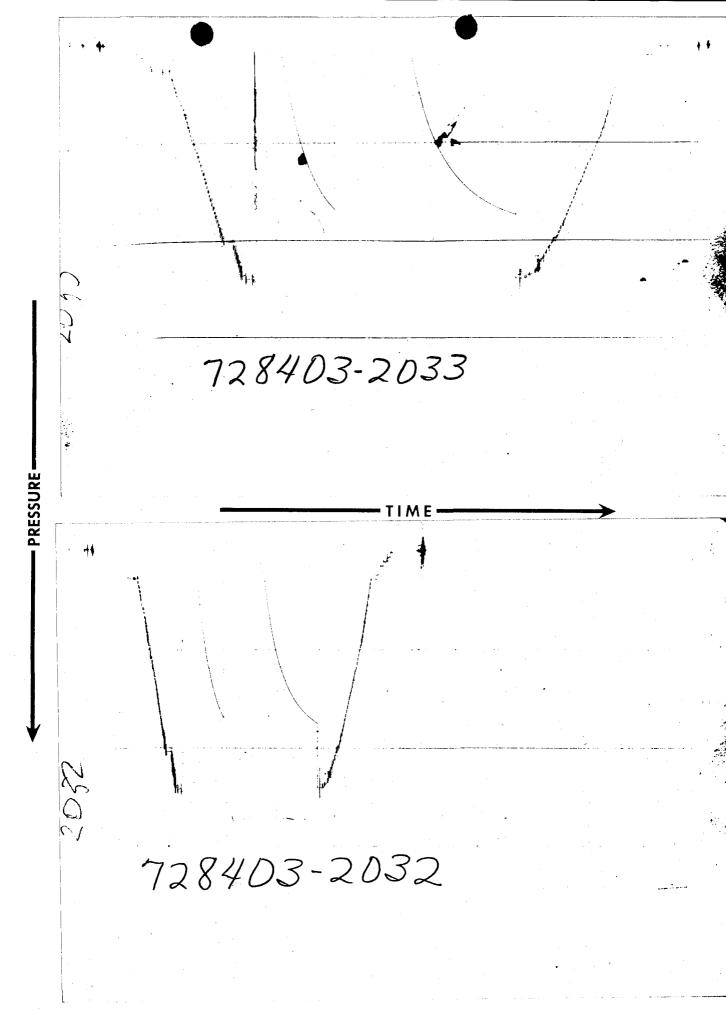
NOTICE: These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and evaluations based thereon, Halliburton is merely expressing its opinion. You agree that Halliburton makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Halliburton shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.



TICKET NO. 981001

		0. D.	1. D.	LENGTH	DEPTH
	Drill Pipe or Tubing				
	Drill Collars				
##	Reversing Sub	6"	3"	1'	
	Water Cushion Valve				
	Drill Pipe	41211	3.826"	5560'	
	Drill Collars	7"	2.25"	567'	
П	Handling Sub & Choke Assembly				
	Dual CIP Valve	5"	3/4"	7'	6127'
°	Dual CIP Sampler		<u> </u>		
	Hydro-Spring Tester	5"	3/4"	5'	6134'
	Multiple CIP Sampler				
	Extension Joint				
Щ					
	AP Running Case	<u>5"</u>	2½"	4 '	<u>6139'</u>
##					
	Hydraulic Jar	5"	<u> </u>	<u>5'</u>	
M	VR Safety Joint	5"	<u> </u>	3'	
0	Pressure Equalizing Crossover				
Ш					
	Packer Assembly	7 3/4"	1.53"	<u>5'</u>	<u>6151'</u>
	Distributor		· .		
-					
	Packer Assembly	7 3/4"	1.53"	6'	6157'
	Flush Joint Anchor				
Ę, J	Pressure Equalizing Tube			4	
	Blanked-Off B.T. Running Case				
õ	Drill Collars				
	Anchor Pipe Safety Joint				
ľ					
	Packer Assembly				
11					
	Distributor				
Ш					
	Packer Assembly				
	Anchor Pipe Safety Joint				
v					
	Side Wall Anchor	-			
	la mai				
₩ ₩	Drill Collars				
		5 3/4"	3"	37 '	
	Flush Joint Anchor	<u> </u>			
		5 3/4"	2.44"	4 ¹	6194'
	Blanked-Off B.T. Running Case	<u> </u>	L. TT		UIJT
	T D				6198'
	Total Depth				0130

FLUI										
	D SAMPL	E DATA		Date 12-	-22-80	Ticket Number	981001		Legal Location Sec Twp Rng	
Sampler Pressure	0	P.S.I.G.		(ind		Halliburto		.=	wp.	
Recovery: Cu. Ft.	Gas 0		°	f D.S.T. OP	N HOLE	Location	FARMING	GION		
cc. Oil			,	Contain DDI	JETT	Witness	SLIGER		۲	[
cc. Wat	er 1100	CC			<u> </u>	vviiness	<u> JETUEIN</u>		1	Lease Name
cc. Muc	uid cc. 1100			Drilling Contractor ALI	WESTERN	# 3		NM S	<u></u> <u></u>	Non
Gravity		API @	°F.	EQI	JIPMENT].	ie
Gas/Oil Ratio				Formation Tested		Lower Isma ????'	у		26	
	RESIS	TIVITY CHL	JTFNT I	Elevation		3,			. IS	
Recovery Water	@	②°F	1 mnn	Net Productive II		Kelly Bush	ina	Ft	1	
Recovery Mud	@	© °F	ppm 7	All Depths Meas Total Depth		61981		Ft	36E	
Recovery Mud Fil-	trate <u>.60</u> @	73 ⁰ °F. 40	00 0	Main Hole/Casir		8 3/4"	A AEU			
Mud Pit Sample	1.58 @	۱/۱ ی ۲۵٪	$_{\rm l}$	Drill Collar Leng	=	5671 I.D.	2.25"		-	\ €
Mud Pit Sample F	1 2/	73° °F. 17	00 _{ppm} [[Drill Pipe Lengti		5560' I.D. 6151' - 51	3.826		-	Well No.
	9.	3	· · · · · · · · · · · · · · · · · · ·	Packer Depth(s)_		6134'	37	Ft	1	9
Mud Weight		vis		Depth Tester Va				Ft	\dashv	
TYPE Cushion	AMOUNT NONE	Ft.	Depth Back Pres. Valve	NONE	Surface Choke	NONE Bott		NE		_
									_	Test No.
Recovered 3	0' Fee	t of mud						, ide	Field	ļ ,
· ·		_							'	
Recovered	Fee	t of		·····						
Recovered	Fee	t of								
Recovered	1 66								BUG	
Recovered	Fee	t of	<u></u>					100	<u> </u>	1.
								ľ	•	
Recovered	Fee	t of				· · · · · · · · · · · · · · · · · · ·				7
	CHVB	RTS INDICAT	E DDORARI	E I EVKVCE	DUDING TH	E TNITTIAL (NOCED IN			1 4
Remarks	UNAN	(12 INDICAL	L LYONADE						. 1	8
				. L LITTO TOL	DONING III	E INTITAL (LUSED IN	· · · · · · · · · · · · · · · · · · ·	-	ed Inte
	PRESSURE P	PERIOD.	SEE PROD	OUCTION TES						Tested Interval
		PERIOD.	SEE PROD							ed Interval
	PRESSURE P	PERIOD.	SEE PROD							ed Interval
		PERIOD.	SEE PROD						Coun	ed Interval
		PERIOD.	SEE PROD						County	ed Interval
		PERIOD.	SEE PROD							ed Interval
R		PERIOD.	SEE PROD	DUCTION TES			MAINDER O	OF THE		ed Interval
	Gauge No.		Gauge No.	OUCTION TES	T DATA SH	EET FOR RE	MAINDER O	OF THE	SAN	ed Interval
TEMPERATURE	Gauge No. Depth:	2032 5139' _{Ft.} Hour Clock	Gauge No. Depth:	2033 6194 Ft.	T DATA SHI Gauge No. Depth:	EET FOR RE	TIM (00:00-24:	OF THE	SAN	ed Interval
R	Gauge No.	2032 5139' _{Ft.}	Gauge No.	2033 6194 Ft.	T DATA SH	EET FOR RE	TIM (00:00-24: Tool Opened 12	OF THE		ed Interval
TEMPERATURE Est. 128 °F.	Gauge No. Depth: 6 24 Blanked Off	2032 5139' _{Ft.} Hour Clock NO	Gauge No. Depth: 12 Blanked Off	2033 6194 Ft. Hour Clock YES	Gauge No. Depth: Blanked Off	EET FOR REI	TIM (00:00-24: Tool Opened 12 Opened	NE :00 hrs.)	SAN	ed Interval
TEMPERATURE	Gauge No. Depth: 6 24 Blanked Off	2032 5139	Gauge No. Depth: 12 Blanked Off Pre	2033 6194 Ft. Hour Clock YES	Gauge No. Depth: Blanked Off Pres	EET FOR REI	TIM (00:00-24: Tool Opened 12	OF THE	SAN JUAN	
TEMPERATURE Est. 128 °F. Actual °F.	Gauge No. Depth: 6 24 Blanked Off Pres	2032 5139' _{Ft.} Hour Clock NO	Gauge No. Depth: 12 Blanked Off Pre	2033 6194 Ft. Hour Clock YES	Gauge No. Depth: Blanked Off	EET FOR REI	TIM (00:00-24: Tool Opened 12 Opened Bypass 01	NE 100 hrs.) 256	SAN JUAN	
TEMPERATURE Est. 128 °F. Actual °F. Initial Hydrostatic	Gauge No. Depth: 6 24 Blanked Off	2032 5139' Ft. Hour Clock NO ssures Office 2914.6	Gauge No. Depth: 12 Blanked Off Pre Field NO REAL AVAILAE	2033 6194 Ft. Hour Clock YES Sessures Office DINGS ARE BLE.	Gauge No. Depth: Blanked Off Pres	EET FOR REI	TIM (00:00-24: Tool Opened Opened Bypass Ol Reported Minutes	NE 200 hrs.) 256 Computed Minutes	SAN JUAN	
TEMPERATURE Est. 128 °F. Actual °F. Initial Hydrostatic Description of the property of the	Gauge No. Depth: 6 24 Blanked Off Pres Field 2917 27 40	2032 5139' Ft. Hour Clock NO ssures 0ffice 2914.6 33.1 25.1	Gauge No. Depth: 12 Blanked Off Pre Field NO REAL AVAILAE	2033 61.94 Ft. Hour Clock YES essures Office DINGS ARE	Gauge No. Depth: Blanked Off Pres	EET FOR REI	TIM (00:00-24: Tool Opened Opened Bypass OI Reported Minutes 30	NE	SAN JUAN State	
TEMPERATURE Est. 128 °F. Actual °F. Initial Hydrostatic Initial Final Closed in	Gauge No. Depth: 6 24 Blanked Off Pres Field 2917 27 40 1600	2032 5139' Ft. Hour Clock NO ssures 2914.6 33.1 25.1 1613.0	Gauge No. Depth: 12 Blanked Off Pre Field NO REAL AVAILAE	2033 6194 Ft. Hour Clock YES Sessures Office DINGS ARE BLE.	Gauge No. Depth: Blanked Off Pres	EET FOR REI	TIM (00:00-24: Tool Opened Opened Bypass Ol Reported Minutes	NE 200 hrs.) 256 Computed Minutes	SAN JUAN State	
TEMPERATURE Est. 128 °F. Actual °F. Initial Hydrostatic Initial Final Closed in	Gauge No. Depth: 6 24 Blanked Off Pres Field 2917 27 40 1600 40	2032 5139' Ft. Hour Clock NO ssures 0ffice 2914.6 33.1 25.1 1613.0 31.8	Gauge No. Depth: 12 Blanked Off Pre Field NO REAL AVAILAE	2033 6194 Ft. Hour Clock YES Sessures Office DINGS ARE BLE.	Gauge No. Depth: Blanked Off Pres	EET FOR REI	TIM (00:00-24: Tool Opened Bypass O1 Reported Minutes 30 120	NE :00 hrs.) 256 Computed Minutes 30 119	SAN JUAN State	
TEMPERATURE Est. 128 °F. Actual °F. Initial Hydrostatic Initial Final Closed in Property Flow Initial Final Flow Initial Final Flow Flow Initial Final Flow Flow Flow Final	Gauge No. Depth: 6 24 Blanked Off Pres Field 2917 27 40 1600 40 53	2032 5139' Ft. Hour Clock NO ssures 0ffice 2914.6 33.1 25.1 1613.0 31.8 50.3	Gauge No. Depth: 12 Blanked Off Pre Field NO REAL AVAILAE	2033 6194 Ft. Hour Clock YES Sessures Office DINGS ARE BLE.	Gauge No. Depth: Blanked Off Pres	EET FOR REI	TIM (00:00-24: Tool Opened Bypass Ol Reported Minutes 30 120 240	NE	SAN JUAN State	
TEMPERATURE Est. 128 °F. Actual °F. Initial Hydrostatic Flow Initial Final Closed in Proper Flow Initial Final Closed in Closed in Initial Final Closed in Initial Final Closed in	Gauge No. Depth: 6 24 Blanked Off Pres Field 2917 27 40 1600 40	2032 5139' Ft. Hour Clock NO ssures 0ffice 2914.6 33.1 25.1 1613.0 31.8	Gauge No. Depth: 12 Blanked Off Pre Field NO REAL AVAILAE	2033 6194 Ft. Hour Clock YES Sessures Office DINGS ARE BLE.	Gauge No. Depth: Blanked Off Pres	EET FOR REI	TIM (00:00-24: Tool Opened Bypass O1 Reported Minutes 30 120	256 Computed Minutes 30 119	SAN JUAN State UT	Lease Owner/Compa
TEMPERATURE Est. 128 °F. Actual °F. Initial Hydrostatic Flow Initial Final Closed in Proper Flow Initial Final Closed in Closed in Initial Final Closed in Initial Final Closed in	Gauge No. Depth: 6 24 Blanked Off Pres Field 2917 27 40 1600 40 53	2032 5139' Ft. Hour Clock NO ssures 0ffice 2914.6 33.1 25.1 1613.0 31.8 50.3	Gauge No. Depth: 12 Blanked Off Pre Field NO REAL AVAILAE	2033 6194 Ft. Hour Clock YES Sessures Office DINGS ARE BLE.	Gauge No. Depth: Blanked Off Pres	EET FOR REI	TIM (00:00-24: Tool Opened Bypass Ol Reported Minutes 30 120 240	256 Computed Minutes 30 119	SAN JUAN State	
TEMPERATURE Est. 128 °F. Actual °F. Initial Hydrostatic Initial Final Closed in Proper Flow Initial Final Closed in Closed in Proper Flow Initial Final Closed in Final Closed in Final Closed in Final Closed in	Gauge No. Depth: 6 24 Blanked Off Pres Field 2917 27 40 1600 40 53	2032 5139' Ft. Hour Clock NO ssures 0ffice 2914.6 33.1 25.1 1613.0 31.8 50.3	Gauge No. Depth: 12 Blanked Off Pre Field NO REAL AVAILAE	2033 6194 Ft. Hour Clock YES Sessures Office DINGS ARE BLE.	Gauge No. Depth: Blanked Off Pres	EET FOR REI	TIM (00:00-24: Tool Opened Bypass Ol Reported Minutes 30 120 240	256 Computed Minutes 30 119	SAN JUAN State	
TEMPERATURE Est. 128 °F. Actual °F. Initial Hydrostatic Initial Final Closed in Public Flow Initial Final Closed in Public Flow Initial Final Closed in Public Flow Initial Final	Gauge No. Depth: 6 24 Blanked Off Pres Field 2917 27 40 1600 40 53 2477	2032 5139' Ft. Hour Clock NO ssures 0ffice 2914.6 33.1 25.1 1613.0 31.8 50.3	Gauge No. Depth: 12 Blanked Off Pre Field NO REAL AVAILAE	2033 6194 Ft. Hour Clock YES Sessures Office DINGS ARE BLE.	Gauge No. Depth: Blanked Off Pres	EET FOR REI	TIM (00:00-24: Tool Opened Bypass Ol Reported Minutes 30 120 240	256 Computed Minutes 30 119	SAN JUAN State	



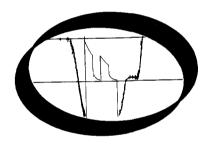
Each Horizontal Line Equal to 1000 p.s.i.

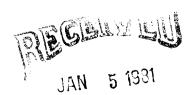
Gas aravi	tv		Oil gra	vity	G(25 /28403 irf. temp°F Ticket No
Spec. gra	vity		Chloric	les	USEDppm	Res*F
Date Time	a.m.	Choke Size	Surface Pressure	Gas Rate MCF	Liquid Rate BPD	Remarks
0339	p.m.		psi	MCF	Bro	On location
0400						Picked up tools
0435						Started tools in hole
0813			<u> </u>			On bottom, set packers
0815				:		Opened tool
0818						Good blow
0822			¹ 4#			Good blow on bottom of bucket
0826	_		11			н
0830			It			H .
0835			u u	·		II
0840		,	11			11
0845			11			Closed tool
0847			0			
0945			12#			Opened tool with a good blow
1000			U .			Good blow
1015			11			Fair blow
1030			11			11
1045			11			П
1100			11			ш
1115						Closed tool, gas to surface, too small
1315						measure Opened by-pass, trip out
1608				·		Out of hole with tools
1730						Laid down tools, job completed
		<u> </u>				

G	auge No	. 20)33		Depth	5195'		Clock No	o. 1044	4	12 hour	Ticket No.	728403		
	Firs Flow Pe	eriod	CI	First osed In Press			cond Period	С	Second osed In Press	ure	Th Flow	ird Period	CI	Third osed In Press	ure
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$Log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl.	$Log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Deff. .000"	PSIG Temp. Corr.	Time Defl. .000"	$Log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.0000	27.9	.0000		39.9	.0000	35.9	.0000		69.3					
ī	.0325	29.3	.0532		402.6*	.0978	49.3	.0390		314.6**	 				
2	.0650	31.9	.0930		678.1	.1957	53.3	.0976		642.2					
3	.0975	33.3	.1329		904.2	.2935	55.9	.1561		882.9					
4	.1300	35.9	.1728		1086.6	.3913	62.6	.2146		1062.6					
5	.1625	38.6	.2126		1241.3	.4892	66.6	.2732		1201.3					
6	.1950	39.9	.2525		1365.3	.5870	69.3	.3317		1313.3					
7			.2924		1469.3			.3902		1402.6					
8			.3323		1554.9			.4488		1478.6					
9			.3721		1623.3			.5073		1540.2					
10			.4120		1682.3			.5658		1593.8			1		
11								.6244		1636.7					
12								.6829		1674.2					
13								.7415		1705.0					
14								.8000		1733.2					
15											-		<u> </u>		
G	auge No.	20	32		Depth	5241 '		Clock N	D. 14128	24	hour				
0	.0000	43.7	.0000		53.0	.0000	45.0	.0000		80.9					
1	.0167	43.7	.0271		441.6*	.0507	59.6	.0201		322.2**					
2	.0333	43.7	.0474		704.4	.1013	64.9	.0504		641.1					
3	.0500	45.0	.0677		926.1	.1520	68.9	.0806		885.2					
4	.0667	47.7	.0881		1110.8	.2027	72.9	.1108		1075.2					
5	.0833	50.3	.1084		1258.5	.2533	76.9	.1410		1216.3					
6	.1000	53.0	.1287	:	1382.5	.3040	80.9	.1712		1328.5				. "	
7			.1490		1486.8			.2015		1420.8					
8			.1694		1570.4			.2317		1493.4		100			
9			.1897		1635.6			.2619		1554.5					
0			.2100		1696.8			.2921		1607.7					
1								.3223		1648.9					
2								.3526		1686.1					
								.3828		1719.4					
13								.4130		1747.3					
13				:										•	
5	ling Intervo		val = 8	6			15 6 minut		9						Minu

				CKET NO.	728403
P		0. D.	I. D.	LENGTH	DEPTH
	Drill Pipe or Tubing				
	Drill Collars	6"	3"	46.01"	4999'
	Reversing Sub		J	40.01	4333
	Water Cushion Valve Drill Pipe	??	3.4" ??	4599	
ñ	Drill Collars	??	2.25"	577'	
П	Handling Sub & Choke Assembly				
	Dual CIP Valve	5"	.87"	3'	5183'
Ш	Dual CIP Sampler	<u>5"</u>	2.75" .75"	<u>4'</u> 5'	5186' 5191'
	Hydro-Spring Tester	3			
	Multiple CIP Sampler				
Щ	manple on bampa				
	Extension Joint		·		•
		Ė II	0.058	6.1	F10F1
	AP Running Case	<u>5"</u>	2.25"	41	5195'
	Hydraulic Jar	5.03"	1.75"	5'	•
\mathbb{H}	riyardane Jai				•
×.	VR Safety Joint	5"	1"	3'	<u>.</u>
0	Pressure Equalizing Crossover		<u>.</u>		
			1 5011	CI	E200 I
	Packer Assembly		1.53"	6'	<u>5209'</u>
	Distributor				
٠			-		
	•		1.53"	61	5214'
	Packer Assembly		1.00		3214
	Flush Joint Anchor				
r a	Pressure Equalizing Tube				
Ш	Blanked-Off B.T. Running Case				
	Drill Collars				
	Anchor Pipe Safety Joint				
Y					
Щ					
	Packer Assembly				·
	Dietsikustes				
	Distributor				
	Packer Assembly				
	Anchor Pipe Safety Joint				
 	Cida Marah				· · · · · · · · · · · · · · · · · · ·
	Side Wall Anchor	-			
	Drill Collars				
	Flush Joint Anchor	5 3/4"	3.5"	26'	
			2.44"	4'	5241 '
	Blanked-Off B.T. Running Case	J 3/4	<u></u>	+	
	Total Depth				5245'
تعت					

Formation Testing Service Report





DIVISION OF OIL, GAS & MINING

HALLIBURTON SERVICES

980607-2033

TIME

980607-2032

Each Horizontal Line Equal to 1000 p.s.i.

Gas Production

B.T. Gauge	B.T. Gauge Numbers			2032	Tickernumber		980607	
			PRESSURE	PRESSURE				یف بندنده
Initial Hyd	rostatic		2661	2700	Elevation	1	6580	ft.
Final Hydr	ostatic		*	2688		1st Flow	-	MCF
	Initial	Time	96	110	Production Rate	2nd Flow	123	MCF
1st Flow	Final	32	131	145		3rd Flow		MCF
	Closed In Pressure	61	1905	1915	Hole Size		8 3/8"	in,
	Initial	Time	91	93	Footage Tested		9	ft.
2nd Flow	Final	149	127	130	Mud Weight		9.1	lbs./gal.
/.	Closed in Pressure	211	*	1854	Gas Viscosity		.018	ср
	Initial	Time			Gas Gravity a	ssumed	.62	_
3rd Flow	Final				Gas Compressib	ility	.83	
	Closed In Pressure				Temperature		126	•F
Extrapolate	4	lst	1993	2004				·· · · · · · · · · · · · · · · · · · ·
Static Pres	1	2nd		1950				
		3rd						
		lst		1532				***
Slope P/10)	2nd		1604			 	
		3rd						

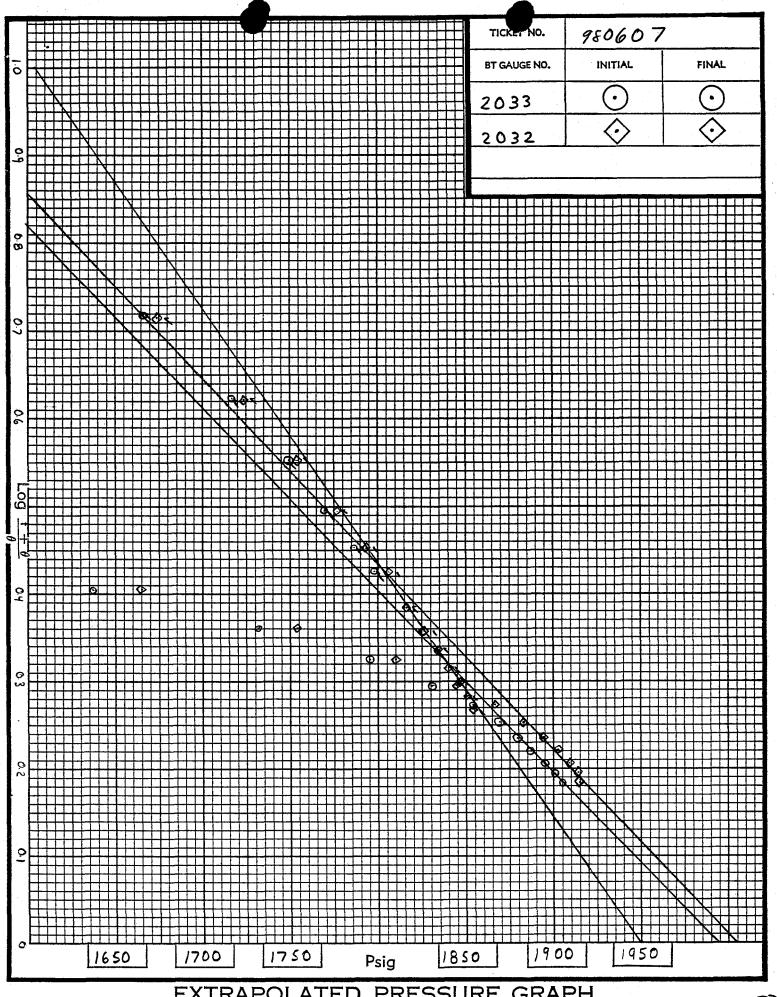
Remarks: *Chart Time Expired . . .

Initial closed in period not calculated due to no measured production rate.

Possible depletion indicated. Initial extrapolated closed in pressures question able due to nature of closed in curve.

S	UMMARY	B.T. Gauge Depth	No.		B.T. Gauge Depth			
PRODUCT	EQUATION	FIRST	SECOND	THIRD	FIRST	SECOND	THIRD	UNITS
Transmissibility	$\frac{Kh}{\mu} = \frac{1637 Q_r ZT}{m}$					79.641		md. ft.
Theoretical Flow Capacity	$Kh = \frac{Kh}{\mu} \mu$		·			1.434		md. ft.
Average Effective	$K = \frac{Kh}{h}$.159		md.
Permeability	$K_1 = \frac{Kh}{h_1}$					-		md.
Indicated Flow Capacity	$(Kh)_{s} = \frac{3200 Q_{r} \mu ZT Log(0.472 b/r_{w})}{P_{s}^{2} - P_{r}^{2}}$.826		md. ft.
Damage Ratio	$DR = \frac{\text{Theo. Flow Cap}}{\text{Indicated Flow Cap}} \frac{\text{Kh}}{(\text{Kh})_{\text{s}}}$					1.736		_
Indicated	$OF_1 = \tfrac{Q_r}{P_s^2 - P_r^2} \qquad Max.$					123.549		MCFD
Flow Rate	$OF_2 = \frac{Q_{\epsilon} P_{s}}{\sqrt{P_{s}^2 - P_{p}^2}} Min.$					123.274		MCFD
Theoretical	$OF_8 = OF_1 DR$ Max.					214.513		MCFD
Potential Rate	$OF_4 = OF_2 DR$ Min.					214.036		MCFD
Approx, Radius	b					5.718		ft.
Investigation	$b_1 \subseteq \sqrt{K_1 t} \text{ or } \sqrt{K_1 t_0}$					_		ft.
Potentiometric Surface *	Pot. = $(EI - GD) + (2.319 Ps)$					_		ft.

NOTICE. These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and evaluations based thereon, Halliburton is merely expressing its opinion. You agree that Halliburton makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Halliburton shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.



CORRECTED COPY . . .

	· · · · · · · · · · · · · · · · · · ·										T	ED COPT .	• •	T
Gauge No.	2033			Depth	5576		Clock No	. 1044	14	12 hour	No.	980607	. • : <u></u>	
Firs	t		First osed In Pressi		Sec	ond		Second osed In Pressu		Th	ird	ļi.	Third osed In Press	
Flow Pe				ure		Period	CI CI	osed In Pressu	re		eriod			
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$Log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$Log \frac{t+\theta}{\theta}$	Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Deff. .000"	$log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0 .0000		.0000			.0000	90.6	.0000		126.6					
1 .0468*		.0330**	.874	626.3	.0934*	* 119.9	.0995*	***1.119	1286.6					
2 .0802	111.9		.662	993.3	.1935	114.6	.1924	862	1569.7					
3 .1137	110.6	.0859	543	1275.9	.2935	119.9	.2852	719	1666.2					
4 .1471	113.3	.1123	.463 .405 .361	1494.6	.3936	122.6 122.6	.3781	.623	1717.1					
5 .1805	119.9	.1387	.405	1636.7	.4936	122.6	.4709	552	1749.3					
6 .2140	130.6	.1651	.361	1731.9	.5937	122.6	5638	/107	1769.4			1		
7		.1916	1.326	1794.9	.6938	125.3	.6567	.453 ****,427 TIME EXP	1786.8					T. T.
8		.2180	.297	1831.1	.7938	125.3	(.7230*	*** * ,427	1797.5)	-CTE				1
9		.2444	.273	1853.8	.8939	123.9	CHART	IME EXP	RED AFT	ER			ļ	
10		.2708	.297 .273 .253	1868.6	.9940	126.6	APPROX	MATELY :	09 MINU	ES.		<u> </u>		<u> </u>
11		.2972	.236	1879.3										<u> </u>
12		.3237	.220 .207	1887.4 1895.4								<u> </u>		
13		.3501	.207	1895.4	<u> </u>							_		ļ
14		.3765	.195	1900.8								_		1
15		.4030	.185	1904.8				<u> </u>				<u> </u>		<u> </u>
	0000			D 4l-	EC 47		Clask No			od boun				
Gauge No.		0000		Depth		00.0	Clock No	P. 1412	129.9	24 hour		11	1	1
0 .0000	110.0		074	144.5	.0000	92.8	.0000						ļ	
1 .0241*			.874	620.0		* 122.0	.0516*	960	1292.8					
2 .0412	127.3	.0305	.663 .543	997.3	.1000	119.3	.0998	.800	1575.7 1672.8					
3 .0584	127.3		.463	1298.1	.1518	123.3	.1480	627	1723.4					
4 .0756 5 .0928	131.3	.0577	406	1515.9	.2035	125.9	.1961	.021	1753.4	 		 		
	137.9 144.5	.0712	.406 .361	1664.8 1753.9	.2553 .3070 .3587 .4105	127.3 128.6	.2443 .2925	106	1776.5	 		#		
	144.5	.0984	.326	1809.8	3507	128.6	.3406	450	1792.5			#		
8		.1120	.297	1844.4	/1105	129.9	.3888		1805.8			#		
9		.1255	.273	1867.0	4622	129.9	1370		1816.4			#	<u> </u>	
10		.1391	.253	1882.9	.4622 .5140	129.9	4851	359	1825.8		<u> </u>	1		
11		.1527	.236	1893.6	ערוע	163.3	.4370 .4851 .5333	.336	1833.7			#	1	
12		.1662	.221	1901.5			.5815		1840.4			#		1
13		.1798	.207	1908.2			.6297	299	1847.0			1		
14		.1934	.196	1913.5			.6778	.283	1851.0			1		†
15		.2070	.185	1914.8			.7260	.269	1853.7				 	
Reading Interv	5		4		1	5		14				1	1	Minutes
REMARKS: *	- first	interva	l is equ	al to 7	minutes,	** - 5	minutes,	, *** -]	4 minute	es, ****	- 15 mi	nutes, *	**** _]	O minute
			_	· · · · · · · · · · · · · · · · · · ·										

•	TICKE	TNO.	980607

				
	O. D.	l. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Drill Collars	6"	3"		/1007 L
Reversing Sub	<u>p</u>			<u>4987 '</u>
Water Cushion Valve	2	2 42	40071	
Drill Pipe		3.4?	4987 '	•
Drill Collars		2.25"	577'	
Handling Sub & Choke Assembly	· ·			
Dual CIP Valve	5"	.87"	3'	<u> 5564 '</u>
Dual CIP Sampler	5"	2.75"	4'	<u> 5567 '</u>
Hydro-Spring Tester	5"	.75"	5'	<u>5571 '</u>
Multiple CIP Sampler				•
Extension Joint				
	~ 0	0.758	, // L	FF7CI
AP Running Case	5"	2.75"	_4'	<u> 5576'</u>
	F 00"	7 7-0	FI	
Hydraulic Jar	5.03"	1.75"	_5'	<u>.</u>
	- 11	eg 11	0.1	
VR Safety Joint	5"		_ 3'	•
Pressure Equalizing Crossover		-		-
Packer Assembly	7 3/4"	1.53	6'	5588!
	٠.,٠			
Distributor				
Packer Assembly	7 3/4"	1.53"	6'	5594 '
Flush Joint Anchor				
Pressure Equalizing Tube				-
ressure Equationly rube				-
Rienkod Off R.T. Dimning Con-				
Blanked-Off B.T. Running Case				
D. 111 C11				
Drill Collars				-
Anchor Pipe Safety Joint				
Packer Assembly				
<u> </u>				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
	•	0.0="	07.1	
Drill Collars	?	2.25"	31 '	-
Flush Joint Anchor	5 3/4"	2.44"	<u> 16'</u>	
				-
	5 3/4"	2.44"	4'	5641 '
Blanked-Off B.T. Running Case				-
Blanked-Off B.T. Running Case	<u> </u>			
Blanked-Off B.T. Running Case				5645

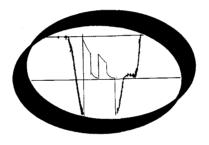
FLUII	D SAMPL	E DATA	<u>/</u>	Date 12-17-	-80	Number	980607	<i>'</i>	
ampler Pressure	100 .725	P.S.I.G.		Cind f D.S.T. OPI	EN HOLE TES	Halliburto T Location	FARMI	NGTON	Legal Location Sec Twp Rng
Recovery: Cu. Ft.	Gas			<u> </u>		<u>. </u>	.,		Ra g
cc. Wat	er			Tester LAI	RRY GIBSON	Witness			
cc. Muc	Twan	e		Orilling					2
	uid cc			Contractor ALI	<u> WESTERN #</u>		TJH S	·	1
ravity			°F	EQI	JIPMENT		DATA		8
ias/Oil Ratio			cu. ft./bbl. F	ormation Tested		radoy ??		 .	4
	RESIS	TIVITY CHL	ITENIT I	Elevation		i80'	<u> </u>	Ft.	2
ecovery Water	·	°F	7	Net Productive In	Va	11y Bushi	na	Ft.	6
ecovery Mud		88 • _{F.} 250	nn I/	All Depths Meası	<u> </u>	45'	ng	Ft.	
7		°F		Total Depth Main Hole/Casin		3/8"		гт.	1
ecovery Mud Filt		82.6 °F. 30		Orill Collar Leng		7' I.D.	2 1/4	4"	
Nud Pit Sample		-		Orill Pipe Length	4.0	187' I.D.	3.4"		
Aud Pit Sample F	iltrate@		r	Packer Depth(s)		88' - 559	4 '	Ft.	
ud Weight	9.	7 vis	26 1	Depth Tester Val		71'		Ft.]
TYPE ushion	AMOUNT	Ft.	Depth Back Pres. Valve		Surface Choke 3/	Bott 4" Adj Cho	om oke 3/4"		
ecovered 2	91 Fee	ent drill	ing mud g	as cut					Field Area
ecovered L	<u> </u>	<u> </u>	ing maa g	<u>uo uu. </u>				Mea.	8 2
Recovered	Fee	t of						From	
lecovered	Fee	t of	·					Tester	BUG
	i.							~	1 1
ecovered	Fee	tof						<u>\s_</u>	
ecovered	Fee	t of						Valve	
<u> </u>	Fee Fee							Valve	
Recovered	Fee		ATA SHEET					Valve	
Recovered Remarks S	Fee EE PRODUCT	t of ION TEST D					· · · · · · · · · · · · · · · · · · ·	Valve	
Recovered Remarks S	Fee EE PRODUCT	t of						Valve	
Recovered Remarks S	Fee EE PRODUCT	t of ION TEST D						Valve	co
ecovered emarks S	Fee EE PRODUCT	t of ION TEST D						Valve	County
ecovered	Fee EE PRODUCT	t of ION TEST D						Valve	County
ecovered	Fee EE PRODUCT TE - Chart	TION TEST D	red Gauge No.	2032	Gauge No.			ME	
Recovered Remarks S	Fee EE PRODUCT TE - Chart Gauge No. 2 Depth: 5	Time Expi	red Gauge No.	2032 5641 Ft.	Gauge No.	Ft.	(00:00-2		SAN
tecovered Comparis S Comparis Compari	Fee EE PRODUCT TE - Chart Gauge No. 2 Depth: 5	Time Expi	red Gauge No. Depth:	2032 5641 Ft. 24 Hour Clock	Gauge No. Depth:	Ft. Hour Clock	(00:00-2: Tool	ME 4:00 hrs.)	SAN
temarks S C	Fee EE PRODUCT TE - Chart Gauge No. 2 Depth: 5	Time Expi	red Gauge No.	2032 5641 Ft. 24 Hour Clock	Gauge No.		(00:00-2 Tool Opened	ME	
tecovered temarks S C TEMPERATURE st. 120 °F.	Fee EE PRODUCT TE - Chart Gauge No. 2 Depth: 5 Blanked Off	Time Expi	Gauge No. Depth: Blanked Off	2032 5641 Ft. 24 Hour Clock YES	Gauge No. Depth: Blanked Off	Hour Clock	Tool Opened Opened	ME 4:00 hrs.) 2208	SAN
temarks S C TEMPERATURE	Fee EE PRODUCT TE - Chart Gauge No. 2 Depth: 5 Blanked Off Pres	Time Expi	Gauge No. Depth: Blanked Off	2032 5641 Ft. 24 Hour Clock YES	Gauge No. Depth: Blanked Off Pressu	Hour Clock	Tool Opened Opened	ME 4:00 hrs.)	SAN
ecovered emarks S C TEMPERATURE st. 120 °F.	Fee EE PRODUCT TE - Chart Gauge No. 2 Depth: 5 Blanked Off Pres	Time Expi O33 576 Pt. 2 Hour Clock NO ssures Office	Gauge No. Depth: Blanked Off Pre	2032 5641 Ft. 24 Hour Clock YES	Gauge No. Depth: Blanked Off	Hour Clock	(00:00-2: Tool Opened Opened Bypass	ME 4:00 hrs.) 2208	SAN
ecovered emarks S C TEMPERATURE st. 120 °F.	Fee EE PRODUCT TE - Chart Gauge No. 2 Depth: 5 Blanked Off Pres Field 2672	Time Expi O33 576 Hour Clock NO ssures Office 2660.8	Gauge No. Depth: Blanked Off	2032 5641 Ft. 24 Hour Clock YES	Gauge No. Depth: Blanked Off Pressu	Hour Clock	Tool Opened Opened Bypass Reported Minutes	ME 4:00 hrs.) 2208 0542 Computed Minutes	SAN JUAN
ecovered emarks S C TEMPERATURE st. 120 °F.	Fee EE PRODUCT TE - Chart Gauge No. 2 Depth: 5 Blanked Off Pres	Time Expi O33 576 Phor Clock NO Ssures Office 2660.8 95.9	Gauge No. Depth: Blanked Off Pre Field 2704	2032 5641 Ft. 24 Hour Clock YES essures Office 2699.9	Gauge No. Depth: Blanked Off Pressu	Hour Clock	Tool Opened Opened Bypass Reported Minutes	ME 4:00 hrs.) 2208 0542 Computed Minutes 32	SAN
temarks S C TEMPERATURE st. 120 °F.	Fee EE PRODUCT TE - Chart Gauge No. 2 Depth: 5 Blanked Off Pres Field 2672 106	Time Expi O33 576 Ft. 2 Hour Clock NO ssures Office 2660.8 95.9 130.6	Gauge No. Depth: Blanked Off Pre Field 2704 132	2032 5641 Ft. 24 Hour Clock YES ssures 0ffice 2699.9	Gauge No. Depth: Blanked Off Pressu	Hour Clock	Tool Opened Opened Bypass Reported Minutes	ME 4:00 hrs.) 2208 0542 Computed Minutes	SAN JUAN State
TEMPERATURE st. 120 °F. hitial Hydrostatic Flow Initial Final Closed in	Gauge No. 2 Depth: 5 Blanked Off Pres Field 2672 106 133	10N TEST D Time Expi 033 576	Gauge No. Depth: Blanked Off Pre Field 2704 132 132	2032 5641 Ft. 24 Hour Clock YES ssures 0ffice 2699.9 110.0 144.5 1914.8 92.8	Gauge No. Depth: Blanked Off Pressu	Hour Clock	(00:00-2: Tool Opened Opened Bypass Reported Minutes 30	ME 4:00 hrs.) 2208 0542 Computed Minutes 32 61	SAN JUAN State
ecovered emarks S C TEMPERATURE st. 120 °F. actual °F. hitial Hydrostatic Flow Initial Final Closed in	Gauge No. 2 Depth: 5 Blanked Off Pres Field 2672 106 133 1921	10N TEST D Time Expi 033 576	Gauge No. Depth: Blanked Off Pre Field 2704 132 132 1905 132 159	2032 5641 Ft. 24 Hour Clock YES ssures 2699.9 110.0 144.5 1914.8 92.8 129.9	Gauge No. Depth: Blanked Off Pressu	Hour Clock	(00:00-2: Tool Opened Opened Bypass Reported Minutes 30 60	ME 4:00 hrs.) 2208 0542 Computed Minutes 32 61 	SAN JUAN
TEMPERATURE st. 120 °F. hitial Hydrostatic Flow Initial Final Closed in	Gauge No. 2 Depth: 5 Blanked Off Pres Field 2672 106 133 1921 133	10N TEST D Time Expi 033 576	Gauge No. Depth: Blanked Off Pre Field 2704 132 132 1905 132 159	2032 5641 Ft. 24 Hour Clock YES ssures 0ffice 2699.9 110.0 144.5 1914.8 92.8	Gauge No. Depth: Blanked Off Pressu	Hour Clock	(00:00-2: Tool Opened Opened Bypass Reported Minutes 30	ME 4:00 hrs.) 2208 0542 Computed Minutes 32 61	SAN JUAN State
TEMPERATURE St. 120 °F. Actual °F. Closed in Closed i	Gauge No. 2 Depth: 5 Blanked Off Pres Field 2672 106 133 1921 133 133	10N TEST D Time Expi 033 576	Gauge No. Depth: Blanked Off Pre Field 2704 132 132 1905 132 159	2032 5641 Ft. 24 Hour Clock YES ssures 2699.9 110.0 144.5 1914.8 92.8 129.9	Gauge No. Depth: Blanked Off Pressu	Hour Clock	(00:00-2: Tool Opened Opened Bypass Reported Minutes 30 60	ME 4:00 hrs.) 2208 0542 Computed Minutes 32 61 	SAN JUAN State
TEMPERATURE St. 120 °F. Actual °F. Initial Hydrostatic Flow Initial Final Closed in Closed in Closed in Closed in Closed in	Gauge No. 2 Depth: 5 Blanked Off Pres Field 2672 106 133 1921 133 133	10N TEST D Time Expi 033 576	Gauge No. Depth: Blanked Off Pre Field 2704 132 132 1905 132 159	2032 5641 Ft. 24 Hour Clock YES ssures 2699.9 110.0 144.5 1914.8 92.8 129.9	Gauge No. Depth: Blanked Off Pressu	Hour Clock	(00:00-2: Tool Opened Opened Bypass Reported Minutes 30 60	ME 4:00 hrs.) 2208 0542 Computed Minutes 32 61 	SAN JUAN State
TEMPERATURE St. 120 °F. Actual °F. nitial Hydrostatic Final Closed in Final Closed in Closed in Final Closed in	Gauge No. 2 Depth: 5 Blanked Off Pres Field 2672 106 133 1921 133 133	10N TEST D Time Expi 033 576	Gauge No. Depth: Blanked Off Pre Field 2704 132 132 1905 132 159	2032 5641 Ft. 24 Hour Clock YES ssures 2699.9 110.0 144.5 1914.8 92.8 129.9	Gauge No. Depth: Blanked Off Pressu	Hour Clock	(00:00-2: Tool Opened Opened Bypass Reported Minutes 30 60	ME 4:00 hrs.) 2208 0542 Computed Minutes 32 61 	SAN JUAN State

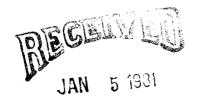
Casing pe	rfs		Bottom	choke	Su	rf. temp°F Ticket No980607
Gas aravit			Oil arav	/ity	GC	DR
				URING DEVICE US		Kes
Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rote MCF	Liquid Rate BPD	Remarks
1240						On location.
1730						Picked up tools.
1900						Started tools in hole.
2200						On bottom with tools.
2208						Opened tool.
2210						Good blow on bottom of bucket.
2215			.25		<u> </u>	n
2220			1			n
2225			1			U .
2230			2			tt .
2238			3			Closed tool. Gas to surface.
2300						Rig up Orifice tester.
2338	· · · · · · · · · · · · · · · · · · ·					Opened tool.
2339	<u></u>	3/8	38	151		Blow to pit.
2345		ij	32	135		tt.
2350	· · · · · · · · · · · · · · · · · · ·	lii.	30	130		tt
2355		H-	18	95		, u
2400		11	20.	9.8		0.
0015		H	22	105		n
0030		0,	22	105		ų
0045		11	26	119		п
0100		13	26	119		n .
0115		11	27	121		li .
0130		В	27	121		ti .
0150		11	28	123		11
1		1	Į.	1	1 .	1

Casing perf	s	· · · · · · · · · · · · · · · · · · ·	Bottom	choke	Sı	orf. temp°F Ticket No980607 ORPAGE 2 Res@°F
Spec. gravit	y		Chlorid	es	ppm	Res
INDICATE	TYPE /	AND SIZE	OF GAS MEAS	SURING DEVICE U	SED	
Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
0205		3/8	28	123		Blow to pit.
0208	:	н.	28	123		Closed tool.
0542						Pulled loose and tripped out of hole.
1030						Out of hole.
1040						Drain sampler.
1131						Laid down tools.
1256						Job complete.
				·		
	····					
	·····					
			· · · · · · · · · · · · · · · · · · ·			
I		1	ł	i	I	1

Gauge No.	2033			Depth	5576		Clock No	. 104	14	12 hour	Ticket No.	980607		
First Flow Per	iod	CI	First osed In Pressi		Sec Flow I	Period	CI	Second osed In Pressu		Flow I			Third osed In Press	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$Log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$Log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$Log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0.0000	95.9	.0000		130.6	.0000	90.6			126.6					
1 .0468*	114.6	.0330**		626.3	.0934**			***	1286.6			1		
2 .0802	111.9	.0595		993.3	.1935	114.6			1569.7		-	<u> </u>		<u> </u>
3 .1137	110.6	.0859		1275.9	.2935	119.9			1666.2					
4 .1471	113.3	.1123		1494.6	.3936	122.6			1717.1					1
5 .1805	119.9	.1387		1636.7	.4936	122.6			1749.3					
6 .2140	130.6	.1651		1731.9	.5937	122.6			1769.4					<u> </u>
7		.1916		1794.9	.6938	125.3	.6567_		1786.8					
8		.2180		1831.1	.7938	125.3	(.7230*	****-CTE	1797.5)					<u> </u>
9		.2444		1853.8	.8939	123.9		IME EXP	RED AFT	ER				
10	************	.2708		1868.6	.9940	126.6	APPROX	MATELY	09 MINU	TES.				
11		.2972		1879.3										ļ
12		.3237		1887.4										
13		.3501		1895.4										<u> </u>
14		.3765		1900.8										
15		.4030		1904.8										
	· \	 	I					41						
Gauge No.	2032				5641		Clock No	P. 141		24 hour			· · · · ·	
0 .0000	110.0	.0000		144.5		92.8			129.9					
1 .0241*	127.3	.0170**		620.0		* 122.0		***	1292.8				ļ	
2 .0412	127.3	.0305		997.3	.1000	119.3			1575.7	L			ļ	
3 .0584	127.3	.0441		1298.1	.1518	123.3			1672.8	<u> </u>			ļ	
4 .0756	131.3	.0577		1515.9	.2035	125.9	.1961_		1723.4			-		ļ
5 .0928	137.9	.0712		1664.8	.2553	127.3	.2443		1753.9				ļ	
6 .1100	144.5	.0848		1753.9	.3070	128.6		<u> </u>	1776.5			 	ļ	
7		.0984		1809.8	.3587	128.6			1792.5					ļ
8		.1120		1844.4	.4105	129.9	.3888		1805.8			<u> </u>		
9		.1255		1867.0	.4622	129.9	.4370		1816.4			_	ļ	ļ
10		.1391		1882.9		129.9			1825.8					
11		.1527		1893.6			.5333		1833.7					ļ
12		.1662		1901.5			.5815		1840.4					
13		.1798		1908.2			.6297		1847.0				ļ	1
14		.1934		1913.5			.6778		1851.0				<u></u>	<u> </u>
15		.2070		1914.8			7260		1853.7				<u> </u>	
Reading Interval	5		4		1	5		14						Minu
REMARKS: *	- first	interva	ıl is equ	al to 7	minutes.	** - 5	minutes	*** -	14 minut	PS. ****	- 15 m	inutes. *	**** _]	0 minu

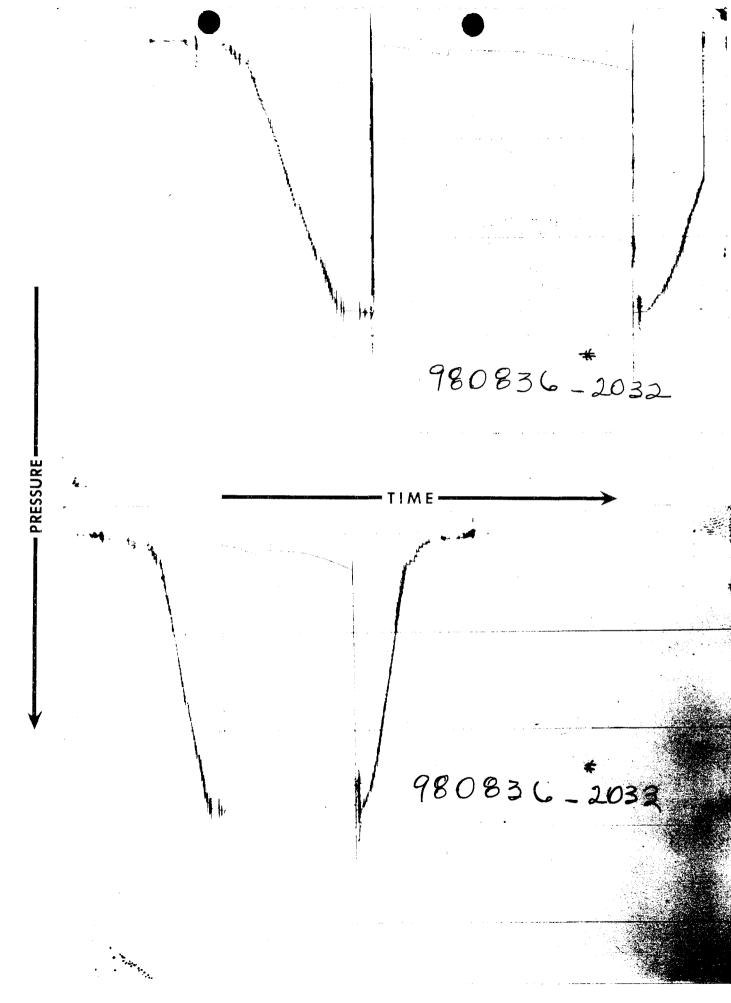
Formation Testing Service Report





DIVISION OF OIL, GAS & MINING

HALLIBURTON SERVICES



Each Horizontal Line Equal to 1000 p.s.i.

ICKET NO.

n		O. D.	1. D.	LENGTH	DEPTH
	Drill Pipe or Tubing				
	Drill Collars	6"	3"		
	Reversing Sub				
	Drill Pipe	412"	3.826"	5174.5'	
	Drill Collars	6"	2.56"	500'	
П	#Hornal Kirtig (Suib #8k €ktolick #Aksternbly CO	6" 5"	.87"	31	5675.5'
	Dual CIP Valve		.75"	3 4 '	5678.5'
	Dual CIP Sampler	5"	.75"	5'	5682.5'
	Hydro-spring Tester				
	Multiple CIP Sampler				
H					<i>:</i>
Ш	Extension Joint				•
	AP Running Case	5"	2.75"	_4'	<u>5687.5'</u>
\mathbf{H}		5"	1.75"	5'	· ·
Щ	Hydraulic Jar		1.75		•
	VR Safety Joint	5"]"	3'	
	Pressure Equalizing Crossover				· ·
		7 3/4"	1.53"	6'	5699.5'
	Packer Assembly				
	Distributor		·		•
	Packer Assembly	7 3/4"	1.53"	6'	5705.5'
	CROSS-OVER	6"	3"	ין	
	THE SUITE MECHOT				• •
iii	Pressure Equalizing Tube				,
	Blanked-Off B.T. Running Case	·			
		7"	2.56"	60'	
		·	2.30		•
	Anchor Pipe Safety Joint				•
	Packer Assembly				
	Distributor				
H				•	
	Packer Assembly				
	Anchor Pipe Safety Joint				
					•
	Side Wall Anchor				
	DAN & SAN & CROSS-OVER	6"	3"	י ך	
	Prince of the state of the stat				•
	Flush Joint Anchor	5 3/4"	31211	26!	•
H	Plantad Off P.T. Dunating Con-	5 3/4"	2½"	4.5'	5805.5'
	Blanked-Off B.T. Running Case			**	
ř	Total Depth				5810'

Casina pe	rfs		Bottom	choke	Su	urf. temp*F Ticket No980836
Gas aravit	v		Oil gra	vity	G	OR
Spec. grav	ity		Chloric	les	ppm	Res
				SURING DEVICE US		
Date Time	a.m.	Choke Size	Surface Pressure	Gas Rate	Liquid Rate BPD	Remarks
1145	p.m.	Size	psi	MCF	BPD	
1145		:				On location.
1750			·			Picked up the tools.
1915						Tools on trip in the hole.
2254			,		· · · · · · · · · · · · · · · · · · ·	Tools on bottom - set weight on the
						tools.
2256		1 ₄ 11				Opened hydrospring with a weak blow.
2306	·	11				Weak blow - 2" in the bucket.
2316	,	11				Weak blow - 2" in the bucket.
2326	· · · · · · · · · · · · · · · · · · ·					Closed tool with a weak blow - 2" in bucket.
0026		1 ₄ "				Opened tool with a very weak blow.
0041		11				Very weak blow.
0111		11				11
0126		\$ 1				11
0138		1,"		·		Blow was dead.
0156						Closed tool.
0356						Pulled off bottom.
			.			
			····			
			·			

FLUII	SAMPL	E TA		Date 12-1	9-80	Ticket Number	9808	36	egal L ec 1	
Sampler Pressure		P.S.I.G.	at Surface	Kind of D.S.T. OPFN	LUOLE	Halliburto Location	on EADM	INGTON	Location Twp Rng.	
Recovery: Cu. Ft.	Gas			.1TM	HOLE WRIGHT &	Location	1 ANT	INGTON	Rng	
cc. Oil					PRUETT	Witness	SLIE	GFR		ت ص
cc. Wate	1 201				A TROLIT	vvitness		<u> </u>	21	BUG
cc. Mud				Drilling Contractor ALL	JESTERN #	3		NM		Name
Tot. Liq Gravity		ADI @				& HOLE	DATA		36	1 20
Gas/Oil:Ratio			u. ft./bbl.	Formation Tested		Paradox		· · · · · · · · · · · · · · · · · · ·	65	
Gds/Oii Ratio	RESIST			Elevation Tested		6565'		Ft.	1	
т(ORIDE ITENT	Net Productive Ir		94' (5716	5' - 581		2	
Recovery WateMUI	1.7.7 @		- ,,	All Depths Measu		Rotary Ke	11y Bus	0') _{Ft.} hing	Ei	
Recovery Mud SAM	1PLE <u>178@</u>	71 °F. 140	00ppm	Total Depth		5810'		Ft.	}	1
Recovery Mud N 1	an teF <u>178</u> @	69 _{°F} 140	00 ppm	Main Hole/Casin		8 3/8"].	
Mud Pit Sample	178 _@	81 _{°F} 140	00 ppm	Drill Collar Leng	th	500' _{I.D.}	2.6			<u> </u> _
Mud Pit Sample Fi			'' 1	Drill Pipe Length		5174.5,D 5699.5	3.8		.	Well No.
Mud Fit Sample Fi		1	—— 	Packer Depth(s)			5705.5	<u>'</u> Ft.		, Z
Mud Weight		vis	sec.	Depth Tester Val	ve	5682.5'		Ft.] }	
TYPE	AMOUNT		Depth Back		Surface	Bott	tom	NONE		1
Cushion	NONE	Ft.	Pres. Valve	NONE	Choke	.75" Cho	oke	NONE		7
	2001 -								>2	Test No.
Recovered	220' Feet	of mud			· · · · · · · · · · · · · · · · · · ·				Field Area	•
D	.	-6						a. Fro	1	1 '
Recovered	Feet	Of		<u> </u>						
Danning	Feet	-£						ភ្ល	BUG	
Recovered	reet	ОТ		<u></u>				Tester	"	-
Recovered	Feet	of						≦		
Recovered		01								
Recovered	Feet	of								
Recovered	reet				·				1	5/U5'-
Remarks	SEI	E PRODUCTI	ON TEST	DATA SHEET.	•					8 5
									1	b/U5
ļ		*] '	≦ .
										ပ္က
									<u> </u>	0186
		1							Cou	- ا
									unty	
									\	
				10000		· · · · · · · · · · · · · · · · · · ·			1,,	1
TEMPERATURE	Gauge No.	2032	Gauge No2		Gauge No.			ME	SAN	1
	Depth:	5687.5 Ft.		805.5' _{Ft.}	Depth:	Ft.		4:00 hrs.)	1	
	12	Hour Clock	24	Hour Clock		Hour Clock	Tool	2256	JUAN	
Est. °F.	Blanked Off	NO	Blanked Of	f YES	Blanked Off		Opened	2256	خ ا	
1	_		_		_		Opened	0356	1	
Actual 127 °F.		sures		ressures		sures	Bypass Reported	Computed	1	_ ≥
	Field	Office O700 C	Field	Office 2020 6	Field	Office	•	1	1	Lease Owner/Company Name
Initial Hydrostatic	2731	2780.6	2807 107	2830.6 114.6			Minutes	Minutes	-S	
Flow Initial Final	66	51.7 70.2	120	127.9			30		State	Yner C
Final Classed in	159	155.1	200	210.6			60		1	%
Closed in	106	115.3	147	173.3					1_	mg
Flow Final	119	103.4	173	187.9			90		UTAH) Ā
Closed in	305	310.3	360	363.9			120		1生	Non I
Closed in	305	310.3	300						1	6 B
Flow Final		-						<u> </u>	1	
Closed in									1	
Final Hydrostatic	2757	2778.6	2807	2826.6					1 .	
		2775.0							7	
	<u>L </u>					<u> </u>				1 1

STATE OF UTAH

SUBMIT	IN	TRIP	LICA	TE*
(Other	nstr	uction	8 OB	re-

OIL & GAS CON	SERVATION COMMIS	SSION verse side)	5. LEASE DESIGNATION AND SERIAL NO.
			Fee
	DTICES AND REPORT posals to drill or to deepen or p ICATION FOR PERMIT—" for st	S ON WELLS lug back to a different reservoir.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1.			7. UNIT AGREEMENT NAME
OIL GAS GAS OTHER		도로의 항상하면 양생기의 경우	
2. NAME OF OPERATOR			8. FARM OR LEASE NAME
Wexpro Company			Bug
8. ADDRESS OF OPERATOR			9. WELL NO.
P. O. Box 1129,	Rock Springs,	Wyoming 82901	12
4. LOCATION OF WELL (Report location See also space 17 below.) At surface	n clearly and in accordance with	any State requirements.	Wildcat
at Parraco	:		11. SEC., T., R., M., OR BLK. AND
NE NW 583' FNL,	1928' FWT.		SURVEY OR AREA
NE III 505 ZIII,			21-36S-26E., SLB&M
14. PERMIT NO.	15. ELEVATIONS (Show wheth	er DF, RT, GR, etc.)	12. COUNTY OR PARISH 18. STATE
API #: 43-037-30595	KB 6580.80'	GR 6565'	San Juan Utah
16. Chark 4	Appropriate Box To Indicat	te Nature of Notice, Report,	or Other Data
			•
NOTICE OF INT	ENTION TO:	\$01	BENQUENT REPORT OF:
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ementary History X
REPAIR WELL (Other)	CHANGE PLANS		esults of multiple completion on Well completion Report and Log form.)
	OPERATIONS (Clearly state all peri		completion Report and Log form.) lates, including estimated date of starting an ertical depths for all markers and zones perti
KB, set with 940 sack cement in place Decem DST #1: 5066-5078', strong on both openin ISIP 1908, FOFP's 900 DST #2: 5214-5245', strong on both openin IOFP's 27-40, ISIP 16 DST #3: 5594-5645', opened weak, no gas, 123 Mcf, recovered 29 133-133, FSIP 1679, FDST #4: 5738-5832', no gas, reopened weak FOFP's 106-119, FSIP DST #5: 6173-6198', increasing to strong,	ded 9-5/8", 36# & 4 s regular B cement ber 5, 1980 at 11:1 Honaker Trail, IO \(\frac{1}{2} \) igs, no gas, recover 0-1593, FSIP 1908, I Honaker Trail, IO \(\frac{1}{2} \) igs, no gas, recover 053, FOFP's 48-80, I Paradox, IO 33 minu reopened strong, 3/ 01' gas cut mud, IHI THP 2672. Paradox, IO \(\frac{1}{2} \) in no gas, recovered 305, FHP 2757. Lower Ismay, IO \(\frac{1}{2} \) in reopened strong, 8/ is mud, IHP 2917, IOI	17#, K-55 & Soo-95, 81 treated with 3% calc: 5 a.m. 2 hr, ISI 1 hr, FO 1½ ced 3400' water, IHP THP 2244. 2 hr, ISI 1 hr, FO 1½ ced 100' gas and mud TSIP 1706, FHP 2372. 1 tes, ISI 1 hr, FO 2½ 1/4 hr 105 Mcf, 105 mid 1/2 2672, IOFP's 106-13 ISI 1 hr, FO 1½ hrs, 1 220' mud, IHP 2731, 1 ar, ISI 2 hrs, FO 4 h gas in 225 minutes at	rd thd, casing at 2039.62' ium chloride & ¼# flocele, hrs, FSI 2 hrs, opened 2307, IOFP's 84-858, hrs, FSI 2 hrs, opened cut water, IHP 2371, hrs, FSI 214 minutes, nutes 121 Mcf, 150 minutes
18. I hereby certify that the foregoing	1 -11-	Asst. Drlg Supt.	DATE Jan. 7, 1981
C-000			
(This space for Federal or State of	omice are)		
APPROVED BY	TITLE .		DATE

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Pederal or Indian land should be described in accordance with Federal requirements. Consult local

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment. State or Federal office for specific instructions.

Landed $5\frac{1}{2}$ ", 17#, K-55, 8rd thd, LT&C casing at 6369.03' KBM, set with 750 sacks 50-50 Pozmix A cement, floating equipment held OK, cement in place December 26, 1980 at 3.45 p.m.

UAN 2 2 1001

DIVISION OF OIL, GAS & MINING

Please add or replace the enclosed material in your DST report folder.

Lease owner	WEXPRO	
Lease name _	BUG	Well No.12
DST #	3	Halliburton Ticket No.980607
Date of test	12-17-80	



DIVISION OF OIL, GAS & MINING

2

SUBMIT IN DUPLICATE.

				TATE	OF U	ГАН			(See othe				
	OIL	& GA	s co	ONSERV	ATIO	N CO	MMISSIO	N	structions reverse s		LEASE DE		TION AND SERIAL NO
, 								14				Fee	<u> </u>
		TION	OR	RECO	MPLET	IION	REPORT	AND	LOG*	6	. IF INDIAN	, ALLO	TTEE OR TRIBE NAM
1a. TYPE OF W	ELL:	OII.	LL X	GAS WELL		DRY 🗌	Other			7	UNIT AGR	EEMEN	T NAME
b. TYPE OF C													
WELL X	WORK OVER	DEI EN	EP-	BACK		FF. SVR.	Other		T41 17.70	15 16	FARM OR	LEASE	NAME
2. NAME OF OPE	RATOR					****	(0)	13.39				Bug	
Wexpro	o Compar	ıy						t t 3μ		1	WELL NO.		
3. ADDRESS OF C			~				b		0.0.40			12	
							ng 82901			<u>ا ا ۱</u>			L, OR WILDCAT
4. LOCATION OF At surface							ny State requ	irements)	•		Wildca		
	NE NV			FNL, 1	1928	FWL		DIV	ISION O	F 1	1. SEC., T., OR AREA	R., M.,	OR BLOCK AND SURVE
At top prod.	interval rep	orted be	low					_	AS & MIN		01 066		
At total dept	h ·						.'			i I	21-368	-261	E., SLB&M
					14. P	ERMIT NO	······	DATE IS:	SUED		2. COUNTY	OR	13. STATE
API #: 4	3-037-3	30595			1	ente.		١.	-		PARISH Com. To		77+-1-
15. DATE SPUDDED	16. DAT	E T.D. B	EACHED	17. DAT	E COMPL.	(Ready	to prod.) 1	8. ELEVAT	IONS (DF, R	EB. RT. (San Ju		Utah ELEV. CASINGHEAD
_11-30-80	12-2	24-80		2-	-5-81		1		92.80		5577 '		
20. TOTAL DEPTH, 1	MD & TVD	21. PLU	G, BACK	T.D., MD &		2. IF MU	LTIPLE COMPI		23. INTERVA	LS E	OTARY TOO	LS	CABLE TOOLS
6,370'			6,328	31		How M	MANY*		DRILLED		0-6370	1	_
24. PRODUCING IN	TERVAL(S),	OF THIS	COMPL	ETIONTOP	, BOTTOM	, NAME (MD AND TVD)				3 0370	25	
													SURVEY MADE
				- Des	sert C	reek						ļ	No
26. TYPE ELECTRI	CAND-OTHE	R LOGS	RUN							, 	 1	27. W	AS WELL CORED
/ DIL,	ENL/FD	ン									1		No
28.				CASI	NG REC	ORD (Re	port all string	gs set in u	ell)	<i>y</i>			······································
CASING SIZE	WEIG	HT, LB./	FT.	DEPTH SE	T (MD)	HO	LE SIZE		CEMENT	ING REC	ORD		AMOUNT PULLED
9-5/8		36		2,03	39.62		12-1/4	940) .				0
5-1/2		L7			9.03		8-3/8	750					0
										···			<u> </u>
29.			LINER	RECORD				30	0.	TUB	ING RECO	ORD	
SIZE	TOP (M	(D)	вотто	M (MD)	SACKS C	EMENT*	SCREEN ()	(D)	SIZE	DEP	TH SET (M	D)	PACKER SET (MD)
									2-7/8	6,2	241.74		
	1												
31. PERFORATION	RECORD (Int	erval, si	ze and	number)			32.	ACID,	SHOT, FR	ACTURI	E, CEMEN	r squ	EEZE, ETC.
							DEPTH IN	TERVAL (MD)	AMOUN	T AND KIN	D OF B	ATERIAL USED
6295 - 6	6300 ', j	jet,	2 ho1	les per	: foot					,			
							·	:					
33.*					····			·					
DATE FIRST PRODU	CTION	PRODI	CTION	METHOD (A	Thening o		DUCTION umping—size						
		1	CIION	MALIOD (I			umpiny—size	ana type	of pump)			STATUS t-in)	3 (Producing or
1-13-81	Hours	TESTED	l ce	OKE SIZE		wing N. FOR	OTT PAR						Producing
13-2/5/81			l	•		PERIOD	OIL—BÉL.	·	AS-MCF.	ı w	ATER-BBL		GAS-OIL RATIO
FLOW, TUBING PRES	290 8. CASING	PRESSUE		64 LCULATED	OIL-	DDT.		NOR					06:1
340	1			HOUR BAT	E			-MCF.	1	ER-BBI	.	OIF GE	RAVITY-API (CORR.)
34. DISPOSITION O	52(F GAS (Sold,		fuel. ve	ented, etc.)	1 1	32	1	344		494	gm wrma-	ORD P	
Vented v				, 5.0.)						TE	ST WITNES	SEP B	•
35. LIST OF ATTAC			<u> Б</u>										
	above.												
36. I hereby certi	fy that the	foregoin	g and	attached in	formation	n is com	olete and cor	rect sa de	termined for	om ell	vellehle =	ogorde	
	11.			1 .							avantante L	_	
signed	AVME	11	No	M	ті	TLE Di	rector,	Petro.	Leum En	grg	DATE	2-	-18-81

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

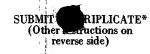
When 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State requirements, locations on Federal or Indian land should be described in other spaces on this form and in any attachments should be listed on this form seed as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in sany attachments interval. Submit a separate report (page) to this form, adequately identified, interval, or intervals, top (8), bottom (8) and name(8) (if any) for only the interval interval.

When 23: "State requirements are and name(8) (if any) for only the interval interval." Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

When 29: "Sacks Cement": Attached supplemental records for this well should show the details of suprarticion for items 22 and 24 above.)

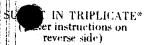
RMATION TOP BOTTOM	BOTTOM	DESCRIPTION, CONTENTS, ETC.		TOP	
			NAMB	MEAS. DEPTH	TRUS VERT. DEPTH
		7	Log tops:		,
		M	Morrison	0	
		国	Entrada	1,105	
			Carme1	1,244	
		N	Navajo	1,293	
	:		Chinle	1,954	
		<u>S</u>	Shinarump	2,702	
			Cutler	2,956	
		<u>H</u>	Honaker Trail	7,660	
		<u>A</u>	Paradox	5,348	
-		n	Upper Ismay	5,810	
	-	7	Lower Upper		
			Ismay	5,991	
		T	Lower Ismay Shale	e 6,047	
		I	Lower Ismay		
			Porosity	6,150	
			"B" Zone	6,176	
			Desert Creek	6,228	
	-	1	Lower Bench	6,279	
		Q	Desert Creek		
			Porosity	200	1

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL GAS AND MINING



	ON OF OIL, GAS, AN	AD MINIMO		5. LEASE DESIGNATION	AND BERIAL NO.
SUNDRY NOT (Do not use this form for propor Use "APPLICA"	ICES AND REPO		ervoir.	6. IF INDIAN, ALLOTTE	B OR TRIBE NAM
Use "APPLICA	ATION FOR PERMIT—" for	r such proposals.)		7. UNIT AGREEMENT N	· MB
OIL GAS OTHER	to see			de de	
NAME OF OPERATOR				8. FARM OR LEASE NA	MB .
Wempro Company	4	•		Bug	
ADDRESS OF OPERATOR				9. WELL NO.	
	ock Springe, Wyo			12	<u> </u>
LOCATION OF WELL (Report location of See also space 17 below.) At surface	nearly and in accordance w	ith any State requirements.*		10. FIELD AND POOL, O	R WILDCAT
ME NW 583' FNL, 1	928' FWL			11. SEC., T., R., M., OR : SURVEY OR AREA 21-368-26	e., Sibam
. PERMIT NO.					
	15. BLEVATIONS (Show wh		1	12. COUNTY OR PARISE	
API #: 43-037-30595	KB 6592.80*	GR 6577'		San Juan	Utah
Check Ap	propriate Box To Indi	cate Nature of Notice, I	Report, or O	ther Data	
NOTICE OF INTEN	TION TO:	1	BUBBBQUI	INT REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-).P.P	REPAIRING '	WELL.
	MULTIPLE COMPLETE	FRACTURE TRE		ALTERING C	
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR	ACIDIZING	ABANDONME	NT*
REPAIR WELL	CHANGE PLANS	(Other)		•	
(Other)	į.	(Note:	Report results	of multiple completion tion Report and Log to	on Well
7. DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is direction nent to this work.)* We would like to set a 200 sacks class B came	a coment retains	pertinent details, and give point locations and measured as at 6195, apply	ertinent dates, ind true vertical	including estimated da depths for all marker ation squeeze	e of starting a s and zones per
DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is directionent to this work.)* We would like to set a 200 sacks class 8 companies, try to squeeze clean out to 6328', pufrom 6295' to 6300',	a cement retains ent with 0.8% D- se using 200 sec erforate the Des apply 1000 gallo	pertinent details, and give possesses locations and measured as at 6195, apply 60 and 10% salt. The class B neat of the class	a hesite If the second the	action squeeze tion does not fallowing da holes per fo	e of starting as and zones per using
DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is directionent to this work.)* We would like to set a 200 sacks class B companies, try to squeeze, try to squeeze clean out to 6328°, po	a cement retains ent with 0.8% D- se using 200 sec erforate the Des apply 1000 gallo	pertinent details, and give possesses locations and measured as at 6195, apply 60 and 10% salt. The class B neat of the class	a hesite If the second the	action squeeze tion does not fallowing da holes per fo	e of starting as and zones per using
DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is directionent to this work.)* We would like to set a 200 sacks class B companies, try to squeeze clean out to 6328', pufrom 6295' to 6300', a	a cement retains ent with 0.8% D- se using 200 sec erforate the Des apply 1000 gallo	pertinent details, and give possesses locations and measured as at 6195, apply 60 and 10% salt. The class B neat of the class	a hesite If the second the	action squeeze tion does not fallowing da holes per fo	e of starting as and zones per using
DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is direction nent to this work.)* We would like to set a 200 sacks class B companies, try to squeeze clear out to 6328', pofrom 6295' to 6300', a 200 sacks class b companies to 6328', pofrom 6295' to 6300', a 200 sacks class b companies to 6328', pofrom 6295' to 6300', a 200 sacks class b companies to 6300	a cement retains ent with 0.8% D- se using 200 sec erforate the Des apply 1000 gallo	pertinent details, and give possesses locations and measured as at 6195, apply 60 and 10% salt. The class B neat of the class	a hesite If the second the	action squeeze tion does not fallowing da holes per fo	e of starting as and zones per using
DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is directionent to this work.)* We would like to set a 200 sacks class B companies, try to squeeze clean out to 6328', pofrom 6295' to 6300', a	a cement retains ent with 0.8% D- se using 200 sec erforate the Des apply 1000 gallo	pertinent details, and give possesses locations and measured as at 6195, apply 60 and 10% salt. The class B neat of the class	a hesite If the second the	action squeeze tion does not fallowing da holes per fo	e of starting as and zones per using
DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is directionent to this work.)* We would like to set a 200 sacks class B companies, try to squeeze clean out to 6328', pufrom 6295' to 6300', a	a cement retains ent with 0.8% D- se using 200 sec erforate the Des apply 1000 gallo	pertinent details, and give possesses locations and measured as at 6195, apply 60 and 10% salt. The class B neat of the class	a hesite If the second the	action squeeze tion does not fallowing da holes per fo	e of starting as and zones per using
DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is directionent to this work.)* We would like to set a 200 sacks class B companies, try to squeeze clean out to 6328', pufrom 6295' to 6300', a	a cement retains ent with 0.8% Dent with 0.8% Dent center the Des apply 1000 galle duction test.	pertinent details, and give posses locations and measured at the second	a hesite If the sement the	action squeeze tion does not fallowing da holes per fo	e of starting as and zones per using
DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is directionent to this work.)* We would like to set a 200 sacks class B companies, try to squeeze clean out to 6328', pufrom 6295' to 6300', a	a cement retains ent with 0.8% Description the Description test.	pertinent details, and give posses locations and measured as at 6195', apply 60 and 10% salt. eks class 3 neat class 15% MSR acid,	a hesite If the sement the	action squeeze tion does not fallowing da holes per fo	e of starting as and zones per using
DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is directionent to this work.)* We would like to set a 200 sacks class B companies, try to squeeze clean out to 6328', pufrom 6295' to 6300', a	APPROVEI	pertinent details, and give percent details, and give percent details. Apply 50 and 10% salt. The class B neat of the class B	a hesite If the sement the	action squeeze tion does not fallowing da holes per fo	e of starting as and zones per using
DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is directionent to this work.)* We would like to set a 200 sacks class B companies, try to squeeze clean out to 6328', pufrom 6295' to 6300', a	APPROVEI	pertinent details, and give posses locations and measured as at 6195', apply 60 and 10% salt. eks class 3 neat class 15% MSR acid,	a hesite If the sement the	action squeeze tion does not fallowing da holes per fo	e of starting as and zones per using
DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is directionent to this work.)* We would like to set a 200 sacks class B companies, try to squeeze clean out to 6328', pufrom 6295' to 6300', a	APPROVEI	pertinent details, and give percent details, and give percent details. Apply 50 and 10% salt. The class B neat of the class B	a hesite If the sement the	action squeeze tion does not fallowing da holes per fo	e of starting as and zones per using
DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is directionent to this work.)* We would like to set a 200 sacks class B companies, try to squeeze clean out to 6328', pufrom 6295' to 6300', a	APPROVED OF UTAFOIL, GAS DATE:	pertinent details, and give percent details, and give percent details. Apply 50 and 10% salt. The class B neat of the class B	a hesite If the sement the	action squeeze tion does not fallowing da holes per fo	e of starting as and zones per using
DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is direction nent to this work.)* We would like to set a 200 sacks class B companies, try to squeeze clear out to 6328', pofrom 6295' to 6300', a 200 sacks class b companies to 6328', pofrom 6295' to 6300', a 200 sacks class b companies to 6328', pofrom 6295' to 6300', a 200 sacks class b companies to 6300	APPROVED OF UTAH	pertinent details, and give percent details, and give percent details. Apply 50 and 10% salt. The class B neat of the class B	a hesite If the sement the	action squeeze tion does not fallowing da holes per fo	e of starting as and zones per using
DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is directionent to this work.)* We would like to set a 200 cacks class B com- squeeze, try to squeeze clean out to 6328', po from 6295' to 6300', then make a short pro-	APPROVED OF UTAH OIL, GAS DATE: BY:	pertinent details, and give percent details, and give percent details. Apply 50 and 10% salt. The class B neat of the class B	a hesite If the sement the	including estimated dai depths for all marker ation squeeze some does not a fallowing da holes per fo until cleane	e of starting as and zones per using
DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is directionent to this work.)* We would like to set a 200 sacks class is compared to the square clear out to 6328', particular for 6295' to 6300', a 200 sacks class is compared to 6328', particular out to 6328', particular 6295' to 6300', a 200 sacks class is compared to 6328', particular 6295' to 6300', a 200 sacks class is compared to 6328'.	APPROVED OF UTAH OIL, GAS DATE: BY:	pertinent details, and give per locations and measured at the second sec	a hesite If the sement the on with Ilow well	action squeeze tion does not fallowing da holes per fo	e of starting as and zones per using
DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is direction nent to this work.)* We would like to set a 200 sacks class B companies, try to squee clean out to 6328', per from 6295' to 6300', then make a short pro-	APPROVED OF UTAH OIL, GAS DATE: BY:	pertinent details, and give per locations and measured at the second sec	a hesite If the sement the on with Ilow well	including estimated dai depths for all marker ation squeeze some does not a fallowing da holes per fo until cleane	e of starting as and zones per using

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL GAS AND MINING



	ISION OF OIL, GAS, A				
	STON OF OIL, GAS, A	IND MINING		5. LEASE DESIGNATION	AND BERIAL NO.
CHAIDON NA	\TICES 4 \ 10 DED			6. IF INDIAN, ALLOTTE	S OR TRIBE NAME
SUNDRY NO	OTICES AND REPO	ORTS ON WELL	_S	_	- VA 12105 WAR
(Do not use this form for pro- Use "APPL	ICATION FOR PERMIT—"	or plug back to a differ or such proposais.)	rent reservoir.	_	
1.				7. UNIT AGREEMENT N	EMA
WELL & WELL OTHER				_	
2. NAME OF OPERATOR				8. FARM OR LEASE NA	MA .
Wexpro Company				Bug	
3. ADDRESS OF OPERATOR				9. WELL NO.	
P. O. Box 458, Ro	ck Springs, Wyomi	ng 82901		12	
4. LOCATION OF WELL (Report location See also space 17 below.)	n clearly and in accordance	with any State requirem	ents.*	10. FIELD AND POOL, O	R WILDCAT
At surface			Φ^{\prime}	Bug	
				11. SEC., T., R., M., OR SURVEY OR AREA	BLK. AND
NE NW 583' FNL, 1	928' FWL				
14. PERMIT NO.	15. PLEVATIONS (Show w			21-36S-26E.	
API #: 43-037-30595	· · · · · · · · · · · · · · · · · · ·			12. COUNTY OR PARISE	2/3
	KB 6592.80'	GR 6577'		San Juan	Utah 📑
Check A	Appropriate Box To Ind	icate Nature of No	tice, Report, or O	ther Data	Å
NOTICE OF INT	1. 1.	t		ENT REPORT OF:	
TEST WATER SHUT-OFF		-		1	
FRACTURE TREAT	PULL OR ALTER CASING	7	SHUT-OFF	REPAIRING T	
SHOOT OR ACIDIZE	MULTIPLE COMPLETE ABANDON®	7	RE TREATMENT X	ALTERING C.	
REPAIR WELL	CHANGE PLANS		NG OR ACIDIZING	ABANDONME	""
(Other)		(Other)	OTE: Report results	of multiple completion tion Report and Log for	on Well
cement with 0.8% D-6 shots per foot from 15% MSR acid, recove	6295' to 6297', la red 300 barrels wa	anded tubing at	: 6240', appli	led 1000 gallon	. 1
through treater, shu	t in.	•			1.00
Final report.					4.00 4.00
		•			
	• • • • • • • • • • • • • • • • • • • •				
					- 1
					(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)
				4	
					45 E
				•	
			0	V	
18. I hereby certify that the foregoing	is true and correct				
0 0 9	_	Dedition C		4.0	.00
SIGNED	TITI	E Drilling Sup	JE.	DATE11-16	-82
(This space for Federal or State of	office use)				
ADDROUGH DW		;			
APPROVED BY	ANY	12		_ DATE	

STATE OF UTAH	SUBMIT IN TRIPLICATE.	
OIL & GAS CONSERVATION COMMISSI	(Other instructions on reverse side) 5. LEASE DESIGNATION AND SER Fee	IAL NO.
SUNDRY NOTICES AND REPORTS (Do not use this form for proposals to drill or to deepen or plug Use "APPLICATION FOR PERMIT—" for such I	ON WELLS back to a different reservoir. proposals.) 6. IF INDIAN, ALLOTTEE OR TRIE	BE NAME
OIL GAS OTHER	7. UNIT AGREEMENT HAMB	•
2, MAME OF OPERATOR	8. PARM OR LEASE WANTE	
Wexpro Company 3. Address of Officeror	Ring 9. walt No.	
P. O. Box 458, Rock Springs, WY 82902	10	
 LOCATION OF WELL (Report location clearly and in accordance with any See also space 17 below.) At surface 	State requirements.* 10. FIRED AND FORE, OR WILDOW	AT.
NE NW, 583' FNL, 1928' FWL	Bug Field 11. Sec., T., R., M., OR BUK. AND SURVEY OR AREA	
14. PERKIT NO. 115 BURNATIONS (Show whether to	21-36S-26E-SLB&M	
ADT HIS COR CORDE		
		:ah
Check Appropriate pax to indicate it	Nature of Notice, Report, or Other Data	
THET WATER BHUT-OFF PULL OR ALTER CASING	SUBSEQUENT REPORT OF:	
FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other) Recompletion MULTIPLE COMPLETE ASAMDON* CHANGE PLANS X	WATER SHUT-OFF PRACTURE TREATMENT ALTERING CASING SHOOTING OR ACIDIZING (Other) (Mote: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinen proposed work. If well is directionally drilled, give subsurface local ment to this work.)	it details, and give pertinent dates, including estimated date of star- tions and measured and true vertical depths for all markers and non-	ting any
Notice of Intent to: set bridge plug at 6 6162'-6175' with two shots per foot, test with 800 SCF nitrogen per barrel. If that at 6050' with two sacks cement on top, per shots per foot, test each zone separately, HCL acid with 800 SCF nitrogen per barrel.	and acidize with 4500 gallons 15% HCL ac zone is non-productive, set bridge plug forate 5600'-5610' and 5216'-5234' with if necessary acidize with 2500 gallons	id
		2
		11
	APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING DATE: BY:	
18. I hereby certify that the foregoing is true and correct		
SIGNED MAN (A) TITLE DIT	ector, Petroleum Eng. DATE May 16, 198	83

APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

DATE September 26, 1983

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING

C	DIVISION OF	OIL, GAS, A	ND MINII	NG					3. LEASE DE	BIGNAT	ION AND BERIAL N
									FOO 6. IF INDIAN	, ALLO	THE OR TRIBE HAM
		OR RECO	MPLETI	I MOI	REPORT	AN	ID LO	G*			
1a. TYPE OF WEL	.L: vi	i. GAS	X 50	NT []	Other				7. UNIT AORI	EMENT	MAME
L TYPE OF COM		ren. (***) - Bi ().		. —				1.			
WELL		EEP. PLDG	L EES	in. 🗆	OtherR	COM	pletio	<u>n</u>	S. FARM OR	LEASE	MAME
2. NAME OF OPERAT									Bug		
Wexpro Com	•								12		
P. O. Box		Springs W	ry 8290	12				<u> </u> -		D POOL	, OR WILDCAT
4. LOCATION OF WE	•	• •			y State regu	iremen	te)*		Wildca		• • • • • • • • • • • • • • • • • • • •
	•	FNL, 1928'						ŀ	11. SEC., T.,		H BLOCK AND SURVE
At top prod. in		•						- 1	OR AREA		
								- 1	21-369	-26I	SLB&M
At total depth						2.00	ISSUED].	12. COURTY		13. STATE
	27 20505	1015	14. PE	RMIT NO.		i I	INOLED	1	PARISH		
API: 43-0	5/-3U595	BEACHED 17 DA	TE COMPL.	Ready to	o prod) i -	<u> </u>		 	San Ju		Utah LEV. CABINGHEAD
11-30-83	12-24-80		12 compt. ()-24-83			s. ele GR 6:		KB 659]	
20. TOTAL DEPTH, MD	·	UG. BACK T.D., MD			TIPLE COMP		1 23. INT	ERVALS	ROTARY TOO	LB.	CABLE TOOLS
6370'	6:	290'	1	HOW M	ANY"		DELI	LLED BY	-6370 '	1	400 400
24. PRODUCING INTE			P, BOTTOM,	NAME (D	ID AND TVD	1.	•			25	. WAS DIRECTIONAL
										- 1	SCIVEI MADE
6162' to 6	175' - Ist	nay								1	guin 6000
26. TYPE ELECTRIC									1	27. W	AS WELL CORRD
DIL, CNL/F	DC (Origi	nal Complet	ion)								
28.					ort all strin	go oct					
CASINO SIZE	WEIGHT, LB		SET (MD)		LE SIZE	_		MENTING R	ECORD		AMOUNT PULLED
9-5/8	36	2,039			-1/4		40 Sac				0
5-1/2	17	6,369	0.03	8-	-3/8	-	50 Sac	KS			0
				<u> </u>							
29.		LINER RECOR	D				30.	TI	BING RECO	ORD	
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CI	MENT*	SCREEN (MD)	SIZE		EPTR SET (M		PACKER SET (MD)
		_	_				2-7/8	_6	,113.32 [']		
31. PERFORATION RE	corp (Internal	ire and number)	<u> </u>				VD RUOT		DD 6514514		
or. Perforation Na	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				32.				RE, CEMENT		ATERIAL USED
6162' to 6	1751 - 2 1	noles per f	oot		6162-6			I	gallons		
0102 00 0		nores per r	001		0102				80220110		1102
	TC ,										
33.•					DUCTION						
DATE FIRST PRODUCT	TION PRO	DUCTION METHOD	(Flowing, g	as lift, p	umping—siz	e and s	ype of pur	np)	ehu	t-in)	(Producing or
9-21-83	1	Flowing									cing
	HOURS TESTE			N. FOR PERIOD	01L BÉL.		GAS-NO	1	WATER-BBL		GAS-OIL RATIO
9/21-23/83	CASING PRESS	1/2	011.—	RRI.	GA*-	-KCF.	1130	WATER-	24 BBL. 1	011. 01	
		24-HOUR RA			1	051	1	24		VI	
195 34. disposition of C	AS (Sold, used 1	or fuel, vented, etc	:.)	-		1001	<u>.</u>		TEST WITNES	SED BI	
Vented	-	-							J. A.	Clar	k
35. LIST OF ATTACH	MENTS							 !	<u> </u>		
None											
. I hereby certify	that the forego	lng and attached	information	is comp	lete and cor	rect a	determin	ed from a	li avallable re	ecorda	

TITLE Director, Petroleum Eng.

SUBMIT IN DUPL (See other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

DATE September 26, 1983

STATE OF UTAH **DEPARTMENT OF NATURAL RESOURCES** DIVISION OF OIL, GAS, AND MINING

WELL CC	MPI F	TION C	OR RECO	MPI FT	ION	DED OD	Τ ΔΙ	<u> </u>	G *	6. IF INDIAN	, ALLO	TTEE OR TRIBE NAME
1a. TYPE OF WE		OIL				TEI OI		1D LO	- -	-		
		WELL	GAS WELL	<u>X</u> D	RY	Other				7. UNIT AGRI	CEMEN:	T NAME
b. TYPE OF COM	NPLETION WORK	T DEEP-	PLUG [DIF:	F. 151	Tokket Full	<u> Daniel</u> a	····				<u>.</u>
WELL L	OVER	EN	BACK	nes	vr./	Other	Recor	moletio	nv.	S. FARM OR	LEASE	NAME
2. NAME OF OPERA					(執質)					Bug		
Wexpro Cor						All the second second		C. C.		9. WELL NO.		
3. ADDRESS OF OPI					\$	c	` ` `	-	***	12		
P. O. Box						V	لَىٰ دُرُدُ	1987	£	10. FIELD AN	D P00	L, OR WILDCAT
4. LOCATION OF WI						-	-	•		Wildca	ιt	
At surface h			L, 1928'	FWL	£}i	DIVI	SION	of Vilving		11. SEC., T., OR AREA	R., M.,	OR BLOCK AND SURVEY
At total depth					`aa' I	-, UA:) & [MINING		21-368	-261	E, SLB&M
API: 43-0				43	еміт no.	37-30	95	E ISSUED		12. COUNTY C PARISH San Ju		13. STATE Utah
15. DATE SPUDDED		TE T.D. REAC	HED 17. DAT	E COMPL.	(Ready t	o prod.)				RT, GR, ETC.)*	19. 1	ELEV. CASINGHEAD
11-30-83				-24-83		ļ	GR 6	5577' 1	KB 65	92.80'	}	
20. TOTAL DEPTH, MD	& TVD	21. PLUG, E	ACK T.D., MD &	TVD 22	HOW M	TIPLE COM	PL.,	23. INT	ERVALS LLED BY	ROTARY TOO	LS	CABLE TOOLS
6370 '	[6290			-					0-6370 '	. [
24. PRODUCING INTE	5175 ' -	- Ismay		Р, ВОТТОМ,	NAME (1	MD AND TV	D) *				25	5. WAS DIRECTIONAL SURVEY MADE
26. TYPE ELECTRIC								· · · · · · · · · · · · · · · · · · ·			27. W	AS WELL CORED
DIL (NL/F	$DC \times 01$	rigina1	Complet:	ion)								
28.			CAS	ING RECO	RD (Rep	ort all str	ings set	in well)				
CASING SIZE	WEIG	HT, LB./FT.	DEPTH SI	ET (MD)	но	LE SIZE		CEN	IENTING	RECORD		AMOUNT PULLED
9-5/8	36		2,039	.62'	12-	-1/4	9	40 Sacl	ks			0
5-1/2	17		6,369	.03'	8-	-3/8	— 	50 Sacl	KS.			0
												
	_			·								
29.		LII	ER RECORD		'			30.		TUBING RECO)RD	
SIZE	TOP (M	(D) BO	OTTOM (MD)	SACKS CI	EMENT*	SCREEN	(MD)	SIZE		DEPTH SET (M		PACKER SET (MD)
	<u>`</u>						()	2-7/8		6,113,32	· _	PACKER SEI (MD)
	·					[2-1/0	—— —	0,113.34		
31. PERFORATION RE	CORD (Int	erval, size	ind number)	<u> </u>		32.		CID CHOR	TID A CIT	TIPE CHICKEN	1	
		•	•						 	URE, CEMENT		
6162' to 6	1751 -	2 5-1	oa nom f			l		AL (MD)				MATERIAL USED
0102 10.0	,1/) -	- 2 11010	es ber 10	JOL		6162-	-01/3		4500	gallons	15%	6 HCL
						\						
						 						
33.*						1			<u> </u>			
DATE FIRST PRODUCT	TION	PRODUCT	ION METHOD (Florning a		DUCTION	100 000	****				
				e volumy, y	ue coje, p	<i>umpmy</i> —e	sze unu	type of pun	np)		STATUS t-in)	s (Producing or
9-21-83	LWOUDS	TESTED	owing	- Drosti								ıcing
			CHOKE SIZE		N. FOR PERIOD	OIL—BÉ	L.	GASMC		WATER-BBL		GAS-OIL RATIO
9/21-23/83 PLOW. TUBING PRESS.			1/2		>			1130		24		
	CASING	PRESSURE	24-HOUR RATE	ort—	BBL.	GA 	S-MCF		WATER-		OIL GI	RAVITY-API (CORR.)
195 34. disposition of (CAR (Sold	used for tw	l		-	·	1051		24			
	- AD (D D D D D		,, venieu, tic.,	,						TEST WITNES		
Vented 35. LIST OF ATTACE	IVENTO								 .	J. A.	Clar	:k
	.m.ents											
None	- when	4 ·										
36. I hereby certify	toper the	roregoing a	ind attached i	nformation	is comp	ete and c	orrect a	as determin	ed from	ali available re	ecords	
SIGNED	Am	n M	/all	7	тт. ъ. Т)irecto	nr D	etrolo-	ım Fra	r = .=.		otember 26, 1
~~~~~		<del></del>	W- V.	TT	בב יפוני	<u> </u>	<del></del>	<u>errote(</u>	<u> </u>	<u>s.                                    </u>	<u> </u>	Lember 70, I

# NSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 38, below regarding separate reports for separate completions. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

When 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State

or Federal office for specific instructions.

Here 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

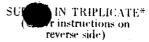
Here 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 38. Submit a separate report (page) on this form, adequately identified, for act interval interval to be separately produced, showing the additional data pertinent to such interval.

Here 29: "Sack Cement". Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Here 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

	4	TRUB VERT. DEPTH									1												
GEOLOGIC MARKERS	TOP	MEAS. DEPTH		Surface	1,105	1,244	1,293	1,954	2,702	2,956	4,660	5,348	5,810'	Ismay5,991'	e6,047'	6,150	6,176	6,228	6,279		6,295	6,385	
38. GEOLO	1	NAM B	Log Tops:	Morrison	Entrada	Carmel	Navajo	Chinle	Shinarump	Cutler	Honaker Trail	Paradox	Upper Ismay	Lower Upper Isma	Lower Ismay Shale6,047	Lower Ismay Por.	B Zone	Desert Creek	Lower Bench	Desert Creek	Porosity	Salt	:
RS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING PRI, PLOWING AND SHUT-IN PRESSURES, AND RECOVERIES	DESCRIPTION, CONTENTS, ETC.																					•	
ROSITY AND CONTENUED USED, TIME TOOL OF	BOTTOM		·		- <del>i</del> a	····						·											
MARY OF POROUS ZONES: 8HOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THERROF; DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING	TOP										<b>2</b> 1, <del>11</del> - 12 - 14												
87. SUMMARY OF POROUS ZONES: 8HOW ALL IMPORTANT ZONES OF DEPTH INTERVAL TESTED, CUSH	FORMATION																						

# DEPARTMENT OF NATURAL RESOURCES



	ION OF OIL, GAS, AND		I	ESIGNATION AND	BERTAL NO.
SUNDRY NOT (Do not use this form for propo Use "APPLIC.	ICES AND REPORTS sals to drill or to deepen or pit ATION FOR PERMIT—" for suc	ON WELLS  ig back to a different reservoir.  h propossis.)		EE N. ALLOTTER OR	TRIBE NAME
1. OIL GAS TV		· · · · · · · · · · · · · · · · · · ·	7. UNIT AG	REEMBHT NAME	
WELL WELL A OTHER  2. NAME OF OPERATOR	Salt Water Dispo	sal			
WEXPRO COMPANY	·		1	LEASE NAME	
3. ADDRESS OF OPERATOR			9. WELL NO	) <b>.</b>	<u> </u>
79 South State, P.	0. Box 11070, Salt	Lake City, Utah 8414	7	12	
4. LOCATION OF WELL (Report location of See also space 17 below.) At surface	mearly and in accordance with a	iny State requirements.		Field	LDCAT
NE NW	, 583' FNL, 1928' F	WL	11. anc., T.	, R., M., OR BLK. A	AND
			1	SS-26E SLB	
14. PERMIT NO.	15. SLEVATIONS (Show whether	DF, RT, GR, etc.)	12. COUNTY	OR PARISH   18.	STATE
API #43-037-30595	KB: 6592.80'	GR: 6577.00'	San	1	Utah
16. Check Ap	opropriate Box To Indicate	Nature of Notice, Report,	or Other Data		
NOTICE OF INTEN	TION TO:	SU	BERQUENT REPORT	O <b>F</b> :	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF		REPAIRING WELL	
·	MULTIPLE COMPLETE	FRACTURE TREATMENT		LTERING CASING	
	ABANDON®	SHOOTING OR ACIDIZING (Other)	^	BANDONMENT*	
(Other) Convert to Salt	Water Disposal X	(Note: Report re	sults of multiple completion Report	and Low from )	
17. DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is direction nent to this work.)*  Notice of intent to c the following work:		•			
Rig up contract worko bridge plug at 6280 f Perforate the desert Pick up a packer and Set packer and land tworkover rig.	eet KBM and clean h Creek interval from run on coated 2-7/8	ole to plugged back 6296-6318 feet KBM v " O.D. tubing to a de	total depth with 2 shots epth of 6150	of 6328 f s per foot ) feet KBM	•
8 h					
Revery 1 36/24 my					
D 200 1/3 1/					
K ///					
				7	
18. I hereby certify that the foregoing is	true and correct	<del></del>	·		
SIGNED Mutople 14	Baltz TITLE_	Petroleum Engineer	DATE	Nov. 27,	1984
(This space for Federal or State office	te use)				
CONTROL ME OF APPROVAL IF A	TITLE		DATE	****	<del></del>

### STATE OF UTAH DIVISION OF OIL, GAS, AND MINING **ROOM 4241 STATE OFFICE BUILDING** SALT LAKE CITY, UTAH 84114 (801) 533-5771

FORM NO. DOGM-UIC-1 (Revised 1982)

	(RULE	1-5 & RULE 1-4)		•
IN THE MATTER OF THE APPLICATE Wexpro Company  ADDRESS 79 So. State.  Salt Lake City. Uto  INDIVIDUAL PARTNERSHIP  FOR ADMINISTRATIVE APPROVAL  INJECT FLUID INTO THE Bug I  SEC. 21 TWP. 35S  San Juan	P.O. Box 1107  h zip 84147  CORPORATION X  TO DISPOSE OR	CAUS  CAUS  ENHANC  DISPOSA  LP GAS S  EXISTING		
	AP	PLICATION		
2. That the applicant su	outhorizes adminis	trative approval o	sion the following fenhanced rcovery	: ; injections, disposal or LP
Bug	/•II No.	Field Bu	g Coun	San Juan
Location of Enhanced Recovery 583 the Injection or Disposal Well	FNL, 1928' F	₩Ĺ <del>Ĭ</del> т	wp. <u>36S</u>	Rge26F
New Well To Be Drilled Yes □ No Ø	Old Well To Be Conve	erted	Casing Test	O Date Will notify
Depth-Base Lowest Known Fresh Water Within ½ Mile 1954	Does Injection Zone C Oil-Gas-Fresh Water	ontain Within ½ Mile YES 🛭	№ □	State What Oil, gas
Location of Production well Injection Source(s) the Bug Fie		Geologic Name(s) and Depth of Source	(•) Desert C	reek (6300)
Geologic Name of ISMay an Injection Zone Desert C	reek	Depth of Injection Interval 6 <u>162</u>	<u>5318</u> feet	KBM
a. Top of the Perforated Interval: 6162 feet KBM Is the intervening thickness sufficient to st		1954	ntervening Thickness (	42081
without additional data?		YES XXIXX	·	
njection Rates and Pressures	Maximum3(	000		
The Names and Addresses of Those to Who See Attachments 1 & 2:	om Notice of Application Rule I-5 (b)			
ate of UTAH				
Before me, the undersigned au nown to me to be the person whose the states, that he is duly authorierein, and that said report is true	e name is subscribe zed to make the al and correct.	ed to the above ins bove report and th	trument, who being nat he has knowle	edge of the facts stated

Notary Public in and for ___

Commission Expires May 2, 1986 STATE OF UTAH

My commission expires _

# STATE OF UTAH DIVISION OF OIL, GAS, AND MINING ROOM 4241 STATE OFFICE BUILDING SALT LAKE CITY, UTAH 84114 (801) 533-5771

FORM NO. DOGM-UIC-1 (Revised 1982)

(801) 533-5771 (RULE I-5 & RULE I-4)

- Wexpro Company	ION OF	CAUSE NO	
	P.O. Box 11070 ah zip 84147	)	
NOIVIDUALPARTNERSHIP FOR ADMINISTRATIVE APPROVAL INJECT FLUID INTO THEBUG II	CORPORATION X TO DISPOSE OR 10. 12 WELL	ENHANCED RECO DISPOSAL WELL LP-GAS STORAGE EXISTING WELL (R	<b>M</b>
SEC. 21 TWP. 36S San Juan	_ RANGE <u>26E</u> COUNTY, UTAH		
	APP	LICATION	
Gas storage operations.  2. That the applicant su	authorizes administ	rative approval of enhance information.	ed rcovery injections, disposal or L
Bug	12	Field Bug	San Juan
Location of Enhanced Recovery 583 this Injection or Disposal Well	FNL, 1928' FW Sec21	Twp36	5S Rge. 26F
New Well To Be Drilled Yes □ No ②	Old Well To Be Convert Yes 🖾 N		st Yes 🖾 No 🖸 Bate <u>Will</u> notify
Depth-Base Lowest Known Fresh Water Within ½ Mile 1954	Does Injection Zone Co Oil-Gas-Fresh Water W	ntain /ithin ½ Mile YES 12 NO []	State What Oil, gas
location of Production well Injection Source(s) the Bug Fie	s within	Geologic Name(s)	esert Creek (6300)
Geologic Name of ISMAY an Injection Zone Desert C	d	Depth of Injection Interval 6162to531	 L8_feet KBM
a. Top of the Perforated Interval: 6162 feet KBM	b. Base of Fresh V		Thickness (a minus b) 4208 '
Is the intervening thickness sufficient to sh without additional data?		protected ES XXXX	
Lithology of Intervening Zones See	Attachment Rul		
Injection Rates and Pressures	Maximum 301	00	
The Names and Addresses of Those to Wh	om Notice of Application	Should be Sent.	
The Names and Addresses of Those to Who	•	4	
	•	4	
	•	4	
See Attachments 1 & 2:	•	4	
The Names and Addresses of Those to Who See Attachments 1 & 2:  tate of UTAH  Ounty of SALT LAKE	•	(1)	Applicant

Notary Public in and for .

STATE OF UTAH

My commission expires

### FORM DOGM-UIC-1 (continued)

### INSTRUCTIONS

- 1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitive analysis of the injection formation of water.
- 2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).
- 3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be an file with Conservation Division or appropriate government agencies.)
  - 4. Attach Electric or Radioactivity Log of Subject well (if released).
- 5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.
- 6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule 1-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.
- 7. The Division is required to send notice of application to be surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehole within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.
- 8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.
- 9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.
- 10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
  - 11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.
- 12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

### **CASING AND TUBING DATA**

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface					
Intermediate					<del> </del>
Production					
Tubing			Name	- Type - Depth of	Tubing Packer
Total Depth Geolog	gic Name - Inj	. Zone Depti	n - Top of Inj. Inte	erval Depth	- Base of Inj. Interval

For casing and tubing data please refer to the attachments for Rule I-5 (b)(3).



### PLEASE TYPE OR USE BLACK INK ONLY

(To be file	ed within 30 days after drilling is completed)
<b>DEPARTME</b> 30595	OUNT OF NATURAL RESOURCES AND ENERGY DIVISION OF OIL, GAS, AND MINING Room 4241 State Office Building Salt Lake City, Utah 84114
	county SanJuansec. 21 twp. 36S rge. 26
	COMPANY OPERATING Wexpro Company
++-	OFFICE ADDRESS 79 So. State, Box 11070
	TOWN Salt Lake City STATE ZIP Utah 84147
E	FARM NAME Bug WELL NO. 12
+++	DRILLING STARTED 13-30 19 80 DRILLING FINISHED 12-27,9 80
	DATE OF FIRST PRODUCTION 1-13-81 COMPLETED 2-5-81
	WELL LOCATED NW 14 NE14 NW 14
<del></del>	
etly	$\frac{2057}{6592.8}$ FT. FROM SL OF ¼ SEC. & $\frac{1928}{6577}$ FT. FROM WL OF ¼ SEC
X	
	DEPARTME 80595

Single Zone	X	
Multiple Zone		<del></del>
Comingled	<del></del>	
LOCATION EXCEPTION		

OIL OR GAS ZONES						
Name	From	To	Name	From	To	
Desert Creek	6295'	6300'				
Ismay	6162'	6175'				

CASING & CEMENT

#### **Casing Set** Csg. Test Cement Size Wgt. Grade Feet Psi Sax Fillup Top 9-5/8" 36# K-55 9-5/8" 47# 500-95 2039.62 940 Surface 5½" 17# K-55 6369.03 750 4160'

	TOTAL DEPTH	7070.00
PACKERS SET		
DEPTH		
NOTE: THIS FORM MUST ALSO BE ATTACHED WHEN FILING PLUC	GING FORM DOGM-U	IC-6

### COMPLETION & TEST DATA BY PRODUCING FORMATION

	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
FORMATION	Desert Creek	Ismay	
SPACING & SPACING ORDER NO.	160 ACRE 186-1+186-3	None	
CLASSIFICATION (DISPOSAL WELL, ENHANCED RECOVERY, LP GAS STORAGE)	0i1	Gas	
PERFORATED	6295'-6300'	6162'-6175'	
INTERVALS			
ACIDIZED?	No	4500 Gallons 15% HCL	
FRACTURE TREATED?	No	No	

#### INITIAL TEST DATA

the state of the s	•		
1/13-2/5/81	9/21-9/23/83		
132	0		
47.5° APT	NA		***************************************
344,000 <b>CF</b>	1,051,000 🖙		CF
2606	NA		
494	24		
Flowing	Flowing	· · · · · ·	- 4
24/64	32/64		
340 psig	195		
	132 47.5° API 344,000	132 0 47.5° API NA 344,000  1,051,000  2 2606  NA 494  24 Flowing Flowing 24/64 32/64	132 0 47.5° API NA 344,000

A record of the formations drilled through, and pertinent remarks are presented on the reverse.

(use reverse side)

See Attachments:	Rule I-5	(b)(4)

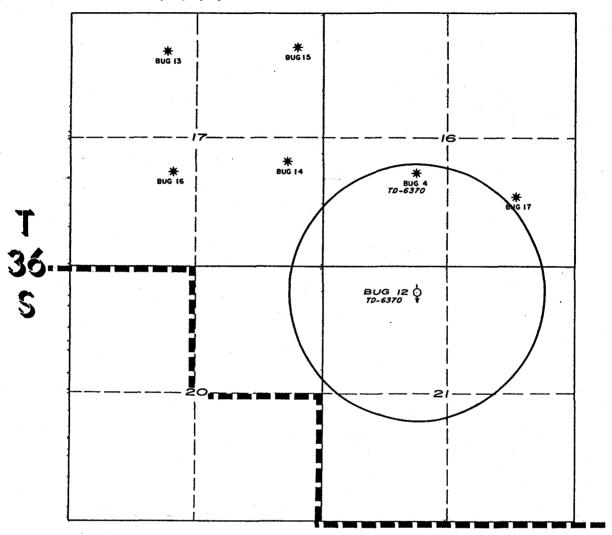
I, the undersigned, being first duly sworn upon eath, state that this well record is true, correct and complete according to the records of this office and to the best of my knowledge and belief.

Telephone		
	Name and title of represer	itative of company
Subscribed and sworn before me this	day of	10

ATTACHMENT 1: Rule I-5 (b)(1)

### R 26 E

RULE I-5 (b)(1)



### LOCATION PLAT

BUG WELL Nº12 DISPOSAL APPLICATION

The producing leasehold operator within one half mile of the subject well is the applicant.

Wexpro Company 79 South State St., P. O. Box 11070 Salt Lake City, UT 84147

Information on surface ownership within one half mile of subject well follows on the next page.

### ATTACHMENT 2: Rule I-5 (b)(1)

BUG WELL NO. 12

Section 21: NE¼NW¼ T-36-S, R-26-E San Juan County, Utah Addresses for notice - Rule I-5

1) E½SE½ of Section 17, and NW½NW½ of Section 21 - surface:

United States Geological Survey University Club Building 136 E. South Temple Salt Lake City, UT 84111

2) S₂ of Section 16 - surface:

Clyde R. & Elsie Sanchez P. O. Box 208
Dove Creek, CO 81324

3) E½NE¼ of Section 20, and S½NW¼, NE¼NW¼, N½NE¾ of Section 21 - surface:

J. C. & Anita Walker and Thomas D. Rhoades 10620 Old Wadsworth Boulevard Broomfield, CO 80020

Dianne Bullock 422 Hacker Court, Apt. 1 Cheyenne, WY 82009

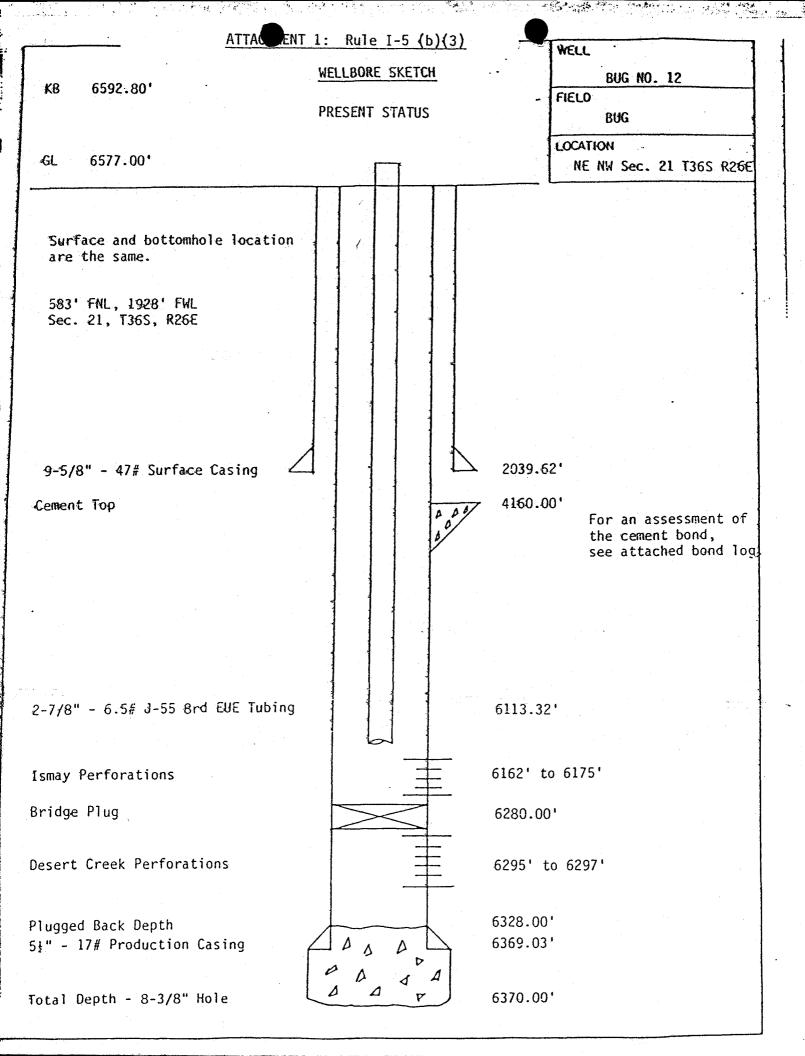
4) SłNEł, NłSEł of Section 21 - surface:

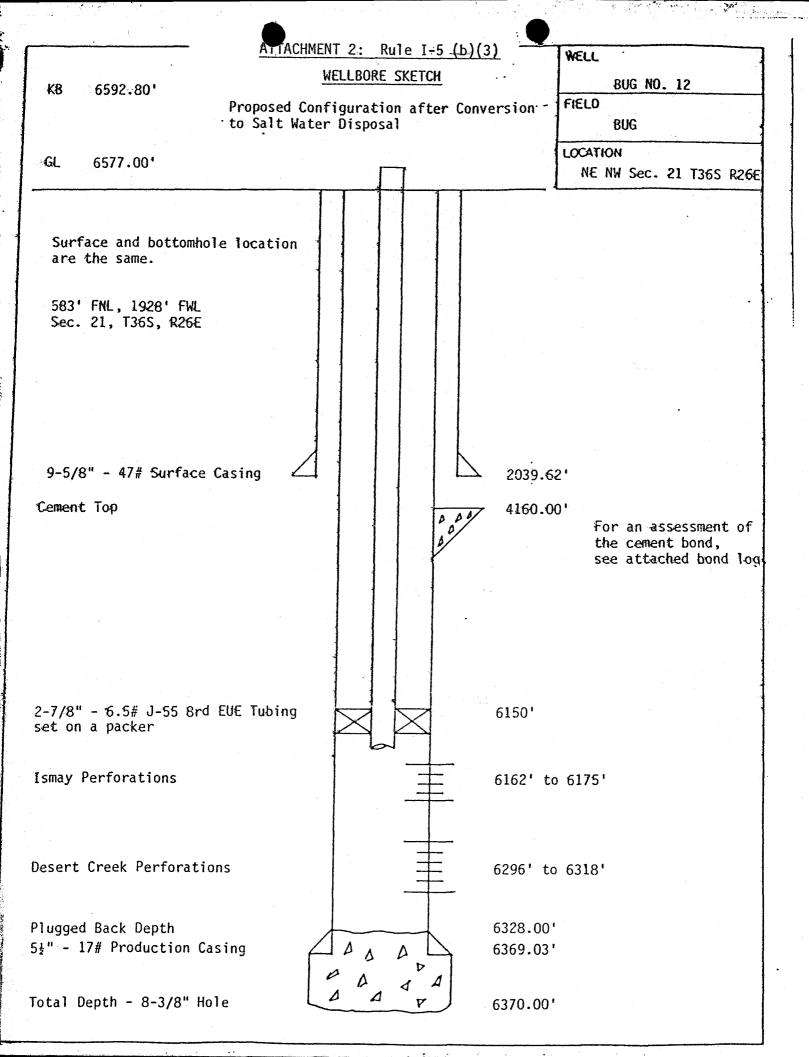
James I. Posey P. O. Box 5 Dove Creek, CO 81324

5) NaSWa of Section 21 - surface:

James C. Wright, Trustee under Revocable Trust Indenture dated September 18, 1979, for the use of Essie J. Wright, and

James C. Wright, Trustee under Revocable Trust Indenture dated September 18, 1979, for the use of Clifford Wright. P. O. Box 625 Dove Creek, CO 81324





WELL

BUG NO. 12

### CASING REPORT

### 9-5/8" O.D. Surface Casing

	Net
1 NSCo. 10" 3000 psi flange 19 jts. 9-5/8" 0.D., 36#, K-55, 8 rd thrd,	1.58
31 jts. 9-5/8" 0.D., 47#, Soo-95, 8 rd	765.21
thrd, ST&C casing	1,220.21
1 Howco insert float valve	0.00
1 jt. 9-5/8" 0.D., 47#, Soo-95, 8 rd thrd,	
ST&C casing 1 Howco 9-5/8" O.D., 8 rd thrd guide shoe Total	35.62 1.20 2,023.82

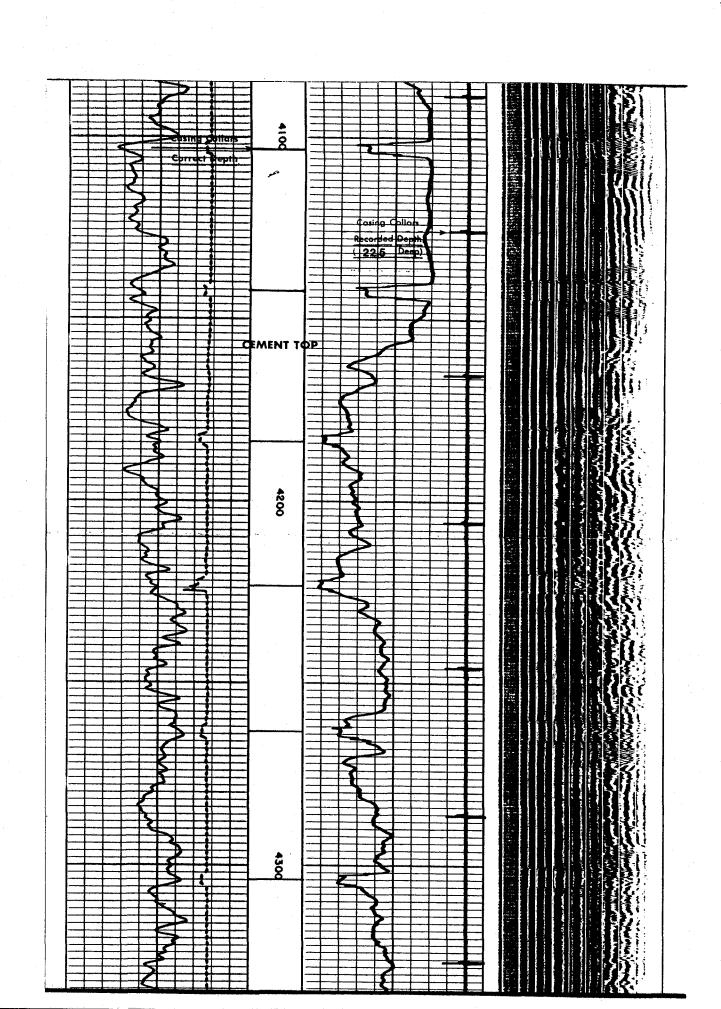
The above csg was landed 0 2039.62' KBM or 15.80' below KB. Top of the flange is at grd level. Circ csg w/rig pump for 45 mins. Cmtd csg w/940 sks reg cmt treated w/3% calcium chloride & 1/4# flocele. Good rets while cmtg. Ret 80 bbls cmt to surf. Bumped plug w/1800 psi. Float held okay. Cmt in place 0 11:15 A.M., 12-5-80.

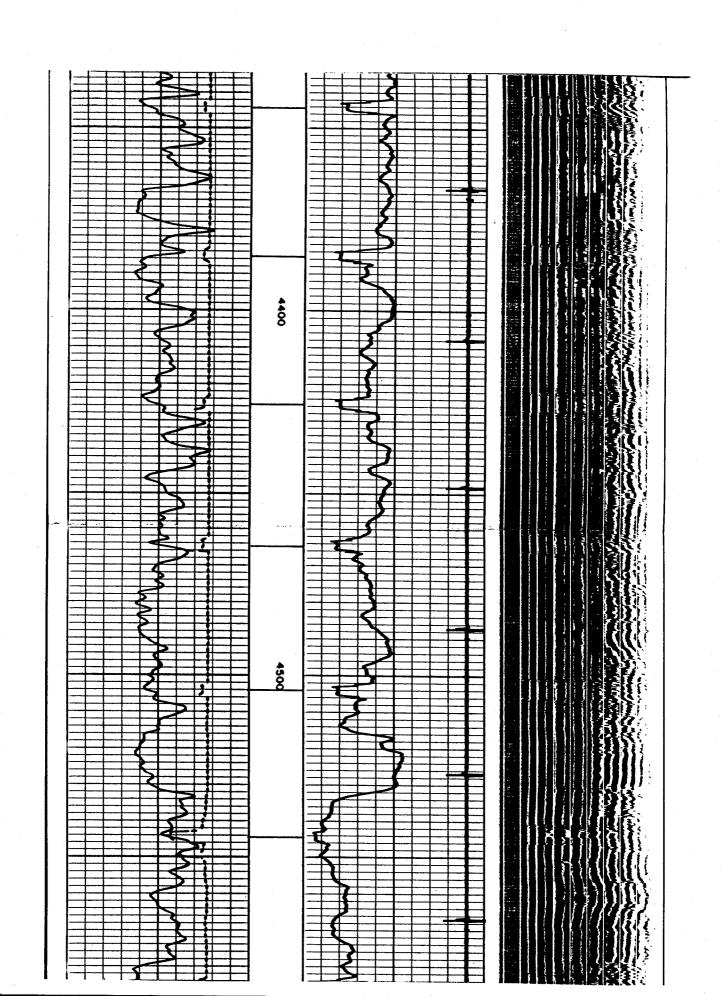
### 5-1/2" O.D. Production Casing

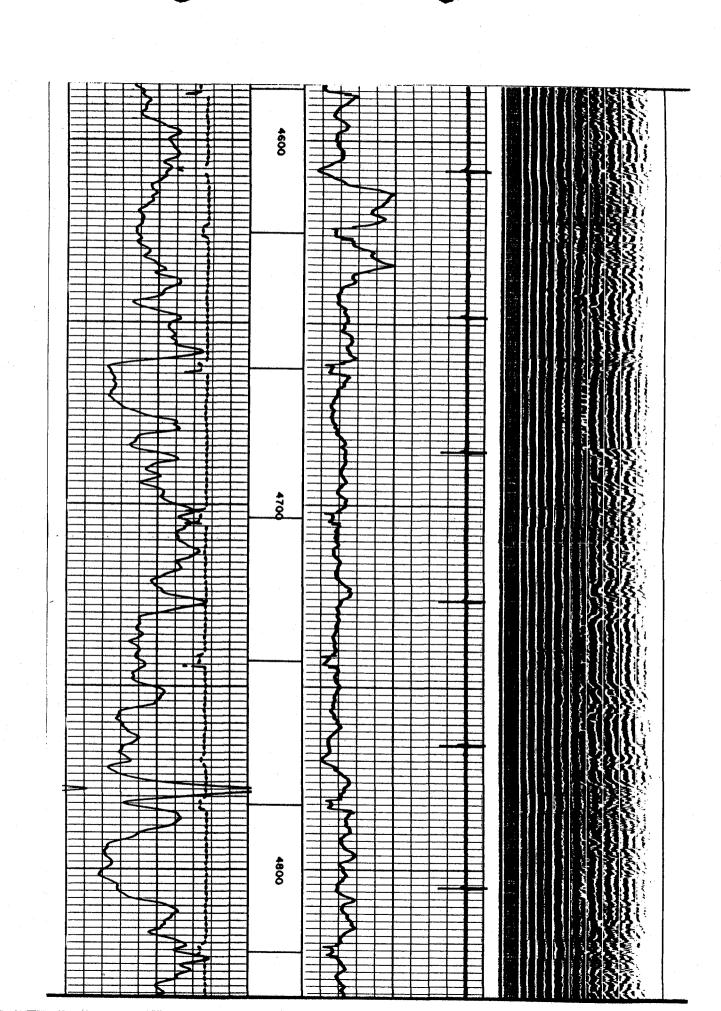
	Net
1 pc. 5-1/2" 0.D., 17#, K-55, 8 rd thrd, LT&C casing	23.92
158 jts. 5-1/2" 0.D., 17#, K-55, 8 rd thrd, LT&C casing	6,293.40
1 jt. 5-1/2" O.D., 17#, K-55, 8 rd thrd, LT&C casing	33.66
1 Davis automatic fillup float collar	1.45
1 cement guide shoe	80
Total	6,353.23

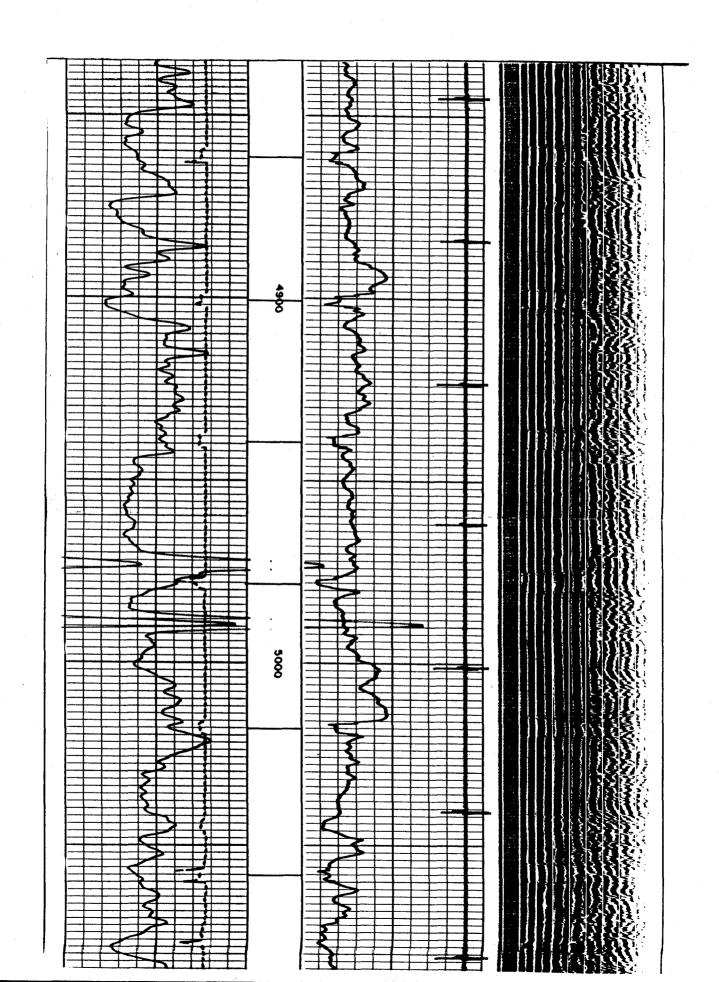
The above casing was landed 0 6369.03' KBM or 15.80' below KB. Circ csg 1 hr w/rig pump. Cmtd w/750 sks 50-50 Pozmix A. Disp 3/147 bbls fsh wtr. Had gd rets throughout. Bumped plug to 2100 psi or 500 psi over. Floating equip held okay. plug dwn 0 3:45 P.M., 12-26-80.

CEMENT BOND LOG Schlumberger VARIABLE DENSITY								
UTAH 112	COMPANY WEXPRO COMPANY							
SAN JUAN, BUG, WEXPRO BUG	WELL		WEXFRO	BUG	12			
SAN JUAN, BUG. KEXPRO BI	FIELD		BUG					
	1		SAN JU	AN	STATE	UT	AH	
COUNTY Field or LOCATION WELL	8	928' F	WL 6 5		IL, ge. 26-F		Services: PERF.	
Permanent Datum Log Measured F Drilling, Measure	romK	8.	15ft.	_, Elev Above	6565 Perm. Datu	Elev.:	K.B. 6580 D.F. 6579 G.L. 6565	
Date Run No.	1-9-8	31		Casing		WATER		
Depth — Driller	6328			fluid Le	ec. Temp.	FULL	°F	
Depth - Logger	6328			Est. Cer	ment Top	4156		
Btm. Log Interval				Unit	District	5713	FARM	
Open Hole Size	8 3/4	, 11		Recorde Witness	ed By	PRICE		
CASING REC.	Size	Wt/Ft	Grad		pe Joint	Тор	Bottom	
Surface String	9 5/8			<u> </u>		SURF	2040	
Prot. String Prod. String	5 1/2	17#				SURF	T.D.	
Liner			1	1		<del> </del>		
		PRIMA	RY CEME	NTING	DATA	<u> </u>		
STRING Vol. of cement	STRING Surface Protection Production Lines						Lîner	
Type of cement	<del> </del>			7.00				
Additive		<del></del> f	· · · · · · · · · · · · · · · · · · ·		<del> </del>			
Ketarder	Retarder							
Wt. of slurry				<del></del> ;				
Water loss					<del> </del>			
Type fluid in csg.				<del></del>	<del>                                     </del>			
Fluid wt.								

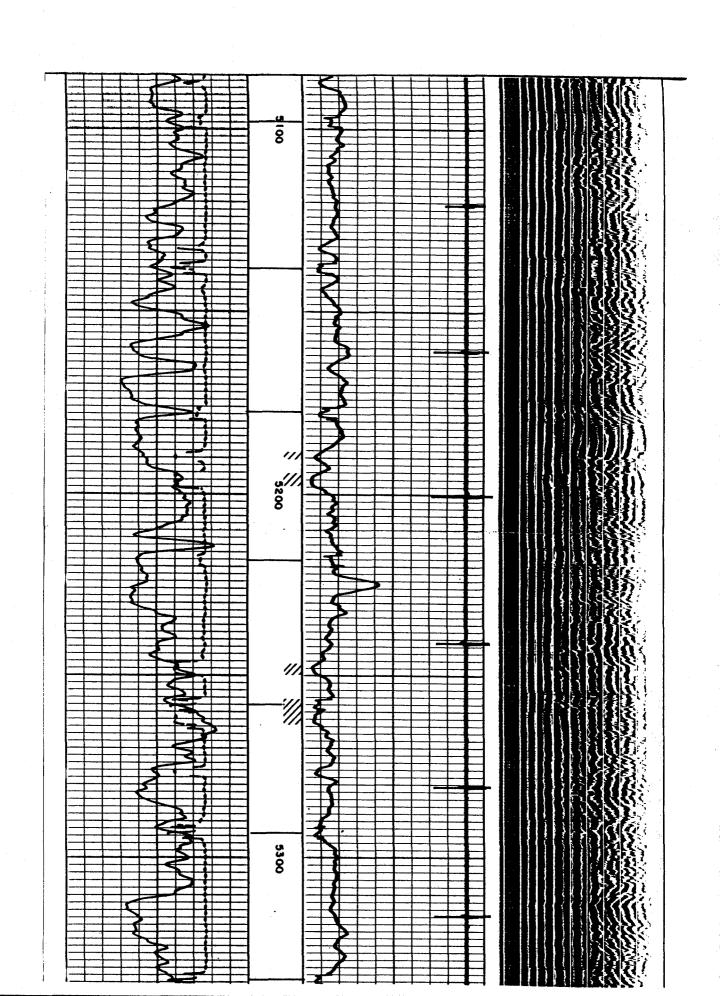


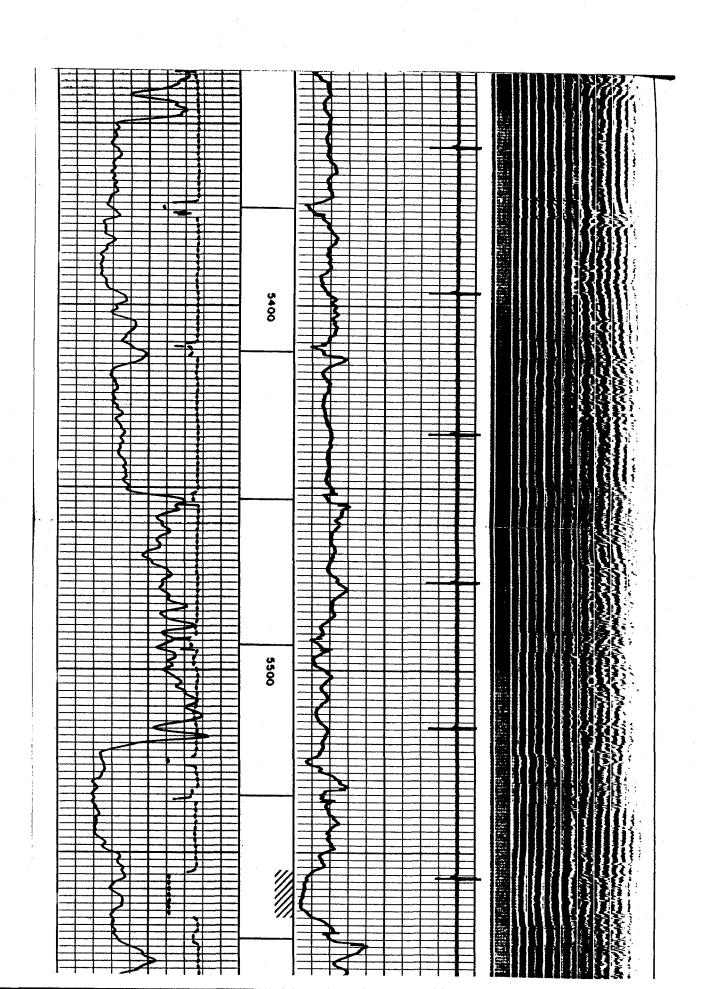


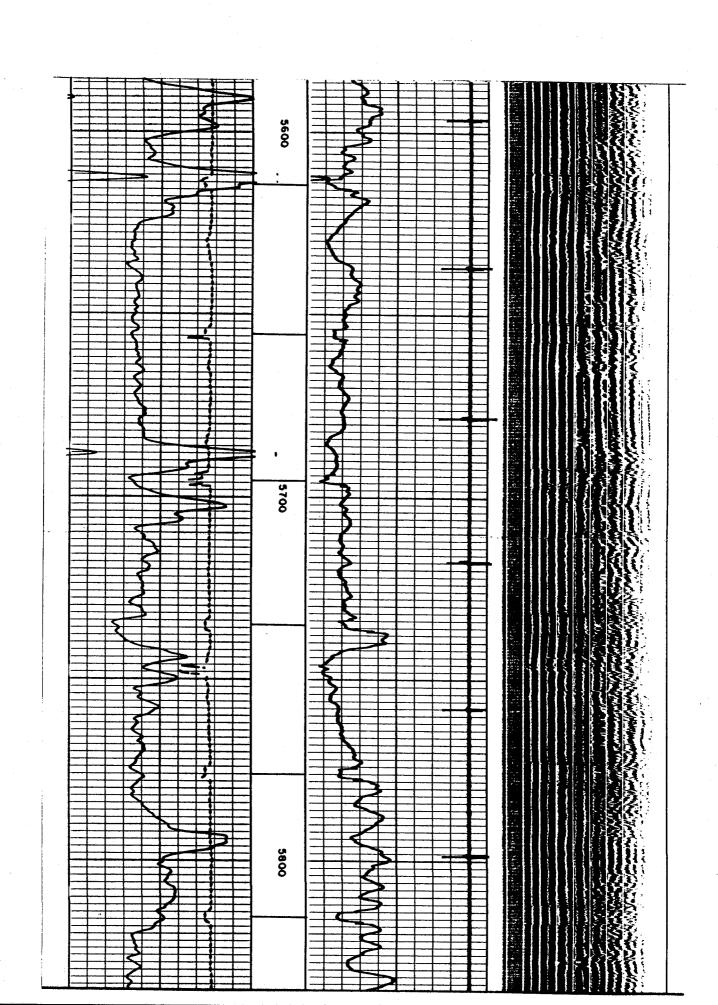


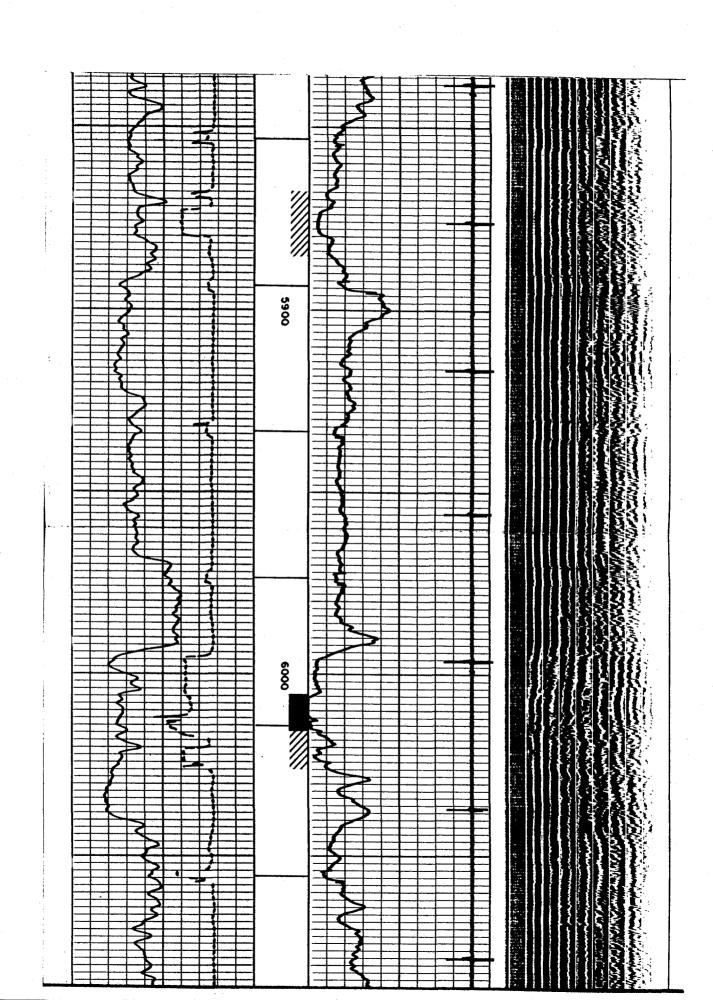


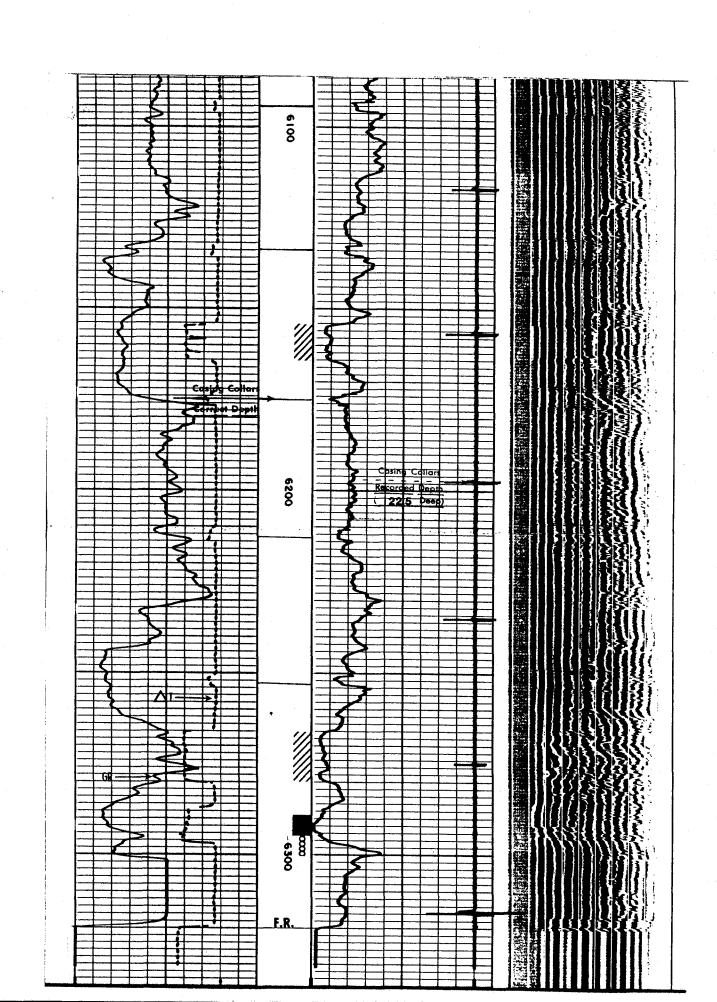
.











	· · · · · · · · · · · · · · · · · · ·					SHEET NO	HBER
COMPANY	· · · · · · · · · · · · · · · · · · ·	<del></del>				DATE	<del></del>
WEXPRO, THE	•					-1	1984
FIELD				COUNTY OR PARISH	<del></del>	STATE	
BUG			<u> </u>	DOLDRES		Coco	RADO
LEASE OR UNIT	•	WELLIN HAME		WATER BOURGE (FO			
BUG BHT. F			DEEPOSAL		ik Thter		
DEPTH. FT. BHT. F	SAMPLE S	TANK	TEMP. F	WATER, BEL/DAY	OIL, HBL/OAY	GAS, MIC	PACY
DATE SAMPLED	TYPE OF		ي	<u> </u>			
29 SEPT. 1984	PROD	UCEO.	- EUPPLY	WATER	PLOOD	AW TJAR ST	TER DISPOS
		W	ATER ANALYSIS	PATTERN	***************************************		
		(NUMBER BESID		CATES ma/I' SCALE U	HIT)		
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CHUCK MARTEN		12	FARMENGT		505-325-5	701 505	334.71
CHICK MADON		MIN IN A	·	CUSTOMER	AREA OR	DISTRICT	
CHUCK MARTER	·	10/2/84		BTCENGINEER OR	ETC LAS	OTC BALES	SUPKAYIS

## ATTACHMENT: -Rule I-5 (b)(5) v.

Geology of Fresh Water Aquifers Bug Field Area T. 36 S., R. 26 E. San Juan County, Utah

### TOPOGRAPHY AND SURFACE GEOLOGY

Topography at the Bug Field consists of three dominant features; Cedar Point to the northwest, Bug Point to the southeast, and the Monument Canyon which runs from northeast to southwest between the two points. The Dakota - Burro Canyon Formations cap Bug and Cedar Points, and are well exposed along the upper walls of the Monument Canyon. Erosion, which created the canyon has cut deep into the Morrison Formation allowing spectacular exposures along its length. Topographic relief at the Bug Field ranges from 600 to 800 feet.

#### STRUCTURE

Figure 1 is a structure map contoured on top of the Entrada Sandstone and displays southwesterly dip of about 50 feet per mile (1/20). Structural dip at other fresh water formations above and below the Entrada is essentially identical.

## STRATIGRAPHY AND WATER QUALITY OF FRESH WATER FORMATIONS

Fresh water formations in the Bug Field area occur from the surface (Dakota - Burro Canyon Formations) to a depth of about 2000 feet (Wingate Sandstone). The Chinle Formation underlying the Wingate is generally considered the first formation to contain brackish water in this area. Water contained in porous rocks below the Chinle become increasingly higher in total dissolved solids with depth. The Desert Creek zone (5750 to 6400 feet) of the Paradox Formation, just above the Paradox salt, contains water with total dissolved solids in excess of 300,000 ppm.

Water quality in fresh water aquifers in this area of San Juan County, Utah, usually ranges from 300 to 1800 ppm total dissolved solids (Table 3). For more detailed information on water quality in this area, please refer to the Utah State Engineer, Technical Publication No. 15, published in 1966. entitled: Water From Bedrock in the Colorado Plateau of Utah.

A brief geologic description of the fresh water bearing formations is

listed below in descending order beginning at the surface.

The Dakota - Burro Canyon Formations as previously mentioned are exposed only along the upper walls of the Monument Canyon and along the tops of Bug and Cedar Points. These formations are comprised of coalescing, lenticular, fluvial (stream) sandstones which reach a combined thickness of about 200 to 300 feet. Fresh water produced from the Dakota - Burro Canyon in the field area is generally from springs.

The Morrison Formation in the Bug Field area is found at the surface along the Monument Canyon and in the subsurface. The fresh water aquifers of the Morrison generally consist of areally limited, lenticular, fluvial sandstones. The thickness of the Morrison Formation at the Bug Field ranges

from 500 to 1100 feet.

The Entrada Sandstone is an areally extensive body which was deposited by aeolian (wind) processes. The unit is about 150 feet thick in the Bug Field area. The depth to the top of the Entrada Sandstone ranges from 500 to 1100 feet.

The Navajo Sandstone is an areally extensive sheet sandstone which lies at a depth of 700 to 1300 feet below the surface. The Navajo was deposited by aeolian processes and reaches a thickness in the field area of around 300 feet.

The Kayenta Formation consists of fluvial sandstones and thin bedded shales and siltstones. The sandstones are generally lenticular in shape and have coalesced or joined to create an areally extensive sheet-like sand body. The Kayenta directly underlies the Navajo Sandstone and is about 165 feet thick.

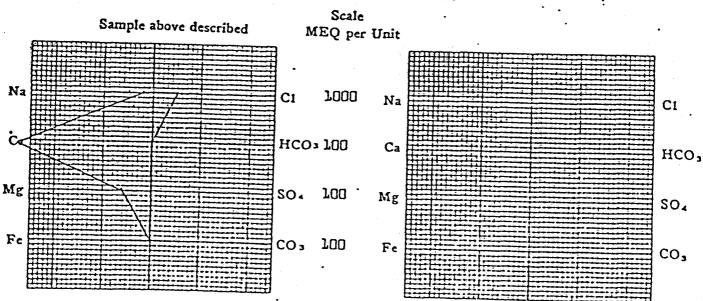
The Wingate Sandstone is present across the entire Bug Field area. The sandstone is aeolian in origin and is about 200 feet thick. The Wingate directly overlies the Chinle Formation and is found from 1200 to 1800 feet below the surface.

## ATTACHMENT 1: Rule I-5 (b)(5) vi.

## WATER ANALYSIS REPORT

OPERATOR Wexpro Company WELL NO Federal Connelly Well No. 1 FIELD Bug COUNTY San Juan STATE Utah	DATE 8-20-80 LAB NO. 35018 LOCATION Section 13-365-25E FORMATION Ismay INTERVAL 5562 - 5568 SAMPLE FROM Tubing {7-23-80}
REMARKS & CONCLUSIONS:  Extremely concentrated water	
Cations         mg/1         meq/1           Sodium         48149         2094-50           Potassium         4900         125-44           Mithium         -         -           Exicium         57980         2893-20           Magnesium         A500         148-70           Iron         present	Anions         mg/1         moq/1           Sulfate         10b         2.20           Chloride         205000         5809.20           Carbonate         0         0           Bicarbonate         27         0.44           Hydroxide         -         -           Hydrogen sulfide         -         -
. Total Cations 5811.84	Total Anions 5811-84
Total dissolved solids, mg/1       325548         NaC1 equivalent, mg/1       331190         Observed pH       5.0	Specific resistance @ 68°F.:  Observed Ohm-meters  Calculated Ohm-meters

## WATER ANALYSIS PATTERN

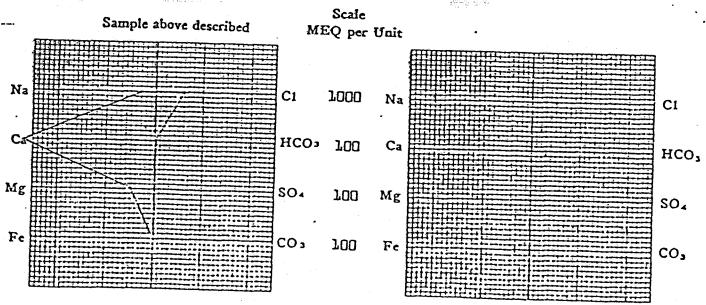


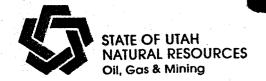
## ATTACHMENT 2: Rule I-5 (b)(5) vi.

## WATER ANALYSIS REPORT

OPERATOR	Wexpro Company Bug No. 1		DATE	N BAI 08-55-5	0335%
FIELD_			LOCATION	ZEC TS-3PN-5	SE
COUNTY	San Juani		FORMATION	Desert Creek	
STATE	Utah		INTERVAL	6289 <b>-</b> 6293	
J. 11. 12.			SAMPLE FROM	{2-8-80}	
•	•			•	•
REMARKS & CO	onclusions:			•	•
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Cations  Sodium  Potassium  Lithlum  Lalcium  Lagnesium		meq/1 3287.42 363.84 2794.40 534.30	Anions  Sulfate		
	tal Cations	<u>6779.96</u>	Total	Anions	<u> 5779.96</u>
etal dissolved solid	ds, mg/1	384961	Specific resistance @ 6	0.4D .	•
aCi equivalent, m	ng/1	288424	Observed .		
beerved pH -		5.6			obm-meters
"			Celculated .	0.040	ohm-meters

## WATER ANALYSIS PATTERN





Scott M. Matheson, Governor Temple A. Reynolds, Executive Director Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

December 7, 1984

San Juan Record Legal Advertizing Monticello, Utah 84353

RE:

UIC-048

#### Gentlemen:

Attached hereto is a Notice of Application of Administrative Approval, before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 4241 State Office Building, Salt Lake City, Utah 84114.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

MARJORIE L. LARSON

Administrative Assistant

Was sent to the following

Utah State Department of Health Water Pllution Control ATTN: Jerry Riding 150 W.N. Temple Salt Lake City, Utah 84114

U.S. Environmental Protection Afency 1860 Lincoln Street ATTN: Mike Strieby Denver, Colorado 80295

Bureau of Land Management Branch of Fluid MInerals U-(922) University Club Building 136 East South Temple Salt Lake City, Utah 84111 % Ed Gwynn

Wexpro Company Newspaper Agency San Juan Record

December 7. 1984

#### **ATTACHMENTS**

## Application for Approval of a Class II Injection Well

Applicant:

Wexpro Company

79 South State, P. O. Box 11070

Salt Lake City, Utah 84147

Subject Well: Bug Well No. 12

Sec. 21, T36S, R26E San Juan County, Utah

### Rule 1-5 (a)

Form DOGM-UIC-1 is attached.

### Rule I-5 (b)(1)

The location plat is attached together with names and addresses of all surface owners and producing leasehold operators within one-half mile of the subject well.

### Rule I-5 (b)(2)

Form DOGN-UIC-2 is attached.

## Rule I-5 (b)(3)

Schematic diagrams of the subject well are attached depicting both the present wellbore status and the proposed wellbore configuration following conversion to salt water disposal.

## Rule I-5 (b)(4)

The intervening thickness between the base of the lowest known fresh water sand and the top of the proposed injection interval is 4208 feet. All known fresh water sands are behind 9-5/8" O.D. surface casing set at 2039.62 feet KBM.

Maximum estimated operating condition data is:

Maximum Injection Rate 3000 Bb1s per day. Maximum Surface Injection Pressure - 2050 psig

The injection fluid is salt water weighing 9.35 pounds per gallon that will exert a hydrostatic pressure of 0.485 psi/foot.

## Rule I-5 (b)(4) (Continued)

Under maximum wellhead injection pressure of 2050 psig, the pressure exerted at the midpoint of the Desert Creek injection interval (6306 feet KBM) will be 5108 psig.

2050 + (6306 feet x 0.485 psi/foot) = 5108 psig

Maximum injection Pressure Gradient =  $\frac{5108 \text{ psig}}{6306 \text{ feet}}$  = 0.810 psi/foot

Estimated fracture pressure gradients for the proposed injection intervals are:

Ismay - 0.83 to 1.1 psi/foot Desert Creek - 0.85 to 1.1 psi/foot

Geologic information from the base of the lowest known fresh water sand through the Desert Creek injection interval follows below:

<u>Formation</u>	Log Top	Thickness	Lithology
Chinle	1954'	748'	Shale, Siltstone
Shinarump	2702'	254 '	Sandstone, Shale
Cutler	2956'	1704 '	Sandstone, Shale
Honaker Trail	4660'	688'	Limestone with Interbedded Sandstone,Siltstone and Shale
Paradox	5348'	462'	Limestone
Upper Ismay	5810'	181'	Limestone
Lower Upper Ismay	59911	159'	Limestone, Dolomite, Shale
Lower Ismay Porosity	6150'	26'	Anhydrite, Shale, Limestone
"B" Zone	6176'	52'	Shale
Desert Creek	6228	51'	Anhydrite, Shale
Lower Bench	6279"	16'	Anhydrite
Desert Creek Porosity	6295	23'	Dolomite

### Rule I-5 (b)(5)

i. The maximum design operating conditions are:

Maximum injection rate

3000 Bbls/day

Maximum surface injection pressure - 2050 psig

Surface injection pressure will be regulated by installing a pressure controller on the injection pump. The injection pump will shut off when maximum surface injection pressure is reached.

- ii. The source of the injection water will be Wexpro Company operated wells within the Bug field. These wells produce from the Desert Creek zone of the Paradox formation at an approximate depth of 6300 feet.
- iii. See attached water analysis.
- iv. Please refer to the geologic data included previously under Rule I-5 (b)(4). All intervals shown are known to be laterally extensive throughout the Bug Field area.
- v. See attached geologic report entitled:

Geology of Fresh Water Aquifers Bug Field Area T. 36S, R26E San Juan County, Utah

vi. See the attached water analysis reports.

## Rule I-5 (d)(6)

9-5/8" O.D. casing exists across all potential fresh water zones in the area.

In the event of a well failure, injection will be discontinued until appropriate well workover procedures have been completed to repair the well.

## Rule I-5 (b)(7)

Not applicable.

## Rule I-5 (b)(8)

Prior to beginning injection into the subject well, the  $5\frac{1}{2}$ " casing by 2-7/8" tubing annulus will be pressure tested to 1500 psig surface pressure for fifteen minutes to insure no casing leaks exist.

The Division will be notified of the date and time of the test.

### Rule I-5 (b)(9)

Not applicable.

### Rule I-5 (b)(10)

Not applicable



Scott M. Matheson, Governor Temple A. Reynolds, Executive Director Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

December 7, 1984

Newspaper Agency 143 South Main Legal Advertizing Mezzanine Floor Salt Lake City, Utah 84111

RE: UIC-048

Gentlemen:

Attached hereto is a Notice of Application of Administrative Approval, before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible but no later than the 12th day of December . In the event that said notice cannot be published by this date, please notify this office immediately by calling 533-5771.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 4241 State Office Building, Salt Lake City, Utah 84114.

Very truly yours, DIVISION OF OIL, GAS AND MINING

MAŔJORIE L. LARSON Administrative Assistant

# BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH

#### ---00000---

IN THE MATTER OF THE APPLICATION

OF WEXPRO COMPANY FOR

ADMINISTRATIVE APPROVAL TO CONVERT

THE BUG #12 WELL, SECTION 21,

TOWNSHIP 36 SOUTH, RANGE 26 EAST,

SAN JUAN COUNTY, UTAH,

TO A SALT WATER DISPOSAL WELL.

CAUSE NO. UIC-048

---00000---

THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that Wexpro Company, 79 South State, P.O. Box 11070, Salt Lake City, Utah, 84147 has requested administrative approval from the Division to convert the Bug #12 well, located in the NE1/4 NW1/4 of Section 21, Township 36 South, Range 26 East, San Juan County, Utah to a salt water disposal well.

The proposed operating data for the well is as follows:

Injection Interval: Desert Creek Formation 6162' to 6318' Maximum Estimated Surface Pressure: 2050 psig Maximum Estimated Rate: 3000 BWPD

If no objections are filed with the Division of Oil, Gas and Mining within fifteen days after publication of this Notice, administrative approval of this application will be granted by the Division Director. Objections, if any, should be mailed to: Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

DATED this 7th day of December, 1984.

STATE OF UTAH DIVISION OF OIL, GAS AND MINING

MARJORIE L. LARSON Administrative Assistant

## AFFIDAVIT OF PUBLICATION

### **PUBLIC NOTICE**

BEFORE THE DIVISION OF OIL, GAS AND MINING DEPART-MENT OF NATURAL RESOURCES STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF WEXPRO COMPANY FOR ADMINISTRATIVE APPROVAL TO CONVERT THE BUG #12 WELL, SECTION 21, TOWNSHIP 36 SOUTH, RANGE 26 EAST, SAN JUAN COUNTY, UTAH, TO A SALT WATER DISPOSAL WELL.

CAUSE NO. UIC-048

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DATED this 7th day of December, 1984.

STATE OF UTAH
DIVISION OF OIL, GAS
AND MINING
S/ MARJORIE L. LARSON
Administrative Assistant
Published in The San Juan Record
December 19. 1984.

depose and say that I am the publisher of the San

Juan Record, a weekly newspaper of general circulation

published at Monticello, Utah, every Wednesday; that

notice of application of administrative approval,

Cause No. UIC-048

a copy of which is hereunto attached, was published in

the regular and entire issue of each number of said

newspaper for a period of 1 issues, the first

publication having been made on December 19, 1984.

and the last publication having been made on

Signature Publisher

Subscribed and sworn to before me this 19th

day of December , A.D. 1984

Treid Kadame

Residing at Monticello, Utah

My commission expires December 2, 1987

AF



OIL, GAS & MINING

I, Joyce Martin, duly sworn,
depose and say that I am the publisher of the San
Juan Record, a weekly newspaper of general circulation
published at Monticello, Utah, every Wednesday; that
notice of application of administrative approva
Cause No. UIC-048
a copy of which is hereunto attached, was published in
the regular and entire issue of each number of said
newspaper for a period of $1$ issues, the first
publication having been made onDecember 19, 1984.
and the last publication having been made on
Signature Publisher
Subscribed and sworn to before me this19th
day of December , A.D. 1984
Notary Public Residing at Monticello, Utah
My commission expires December 2, 1987

## AFFIDAVIT OF PUBLICATIO

### PUBLIC NOTICE

BEFORE THE DIVISION OF OIL, GAS AND MINING DEPART-MENT OF NATURAL RESOURCES STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF WEXPRO COMPANY FOR ADMINISTRATIVE APPROVAL TO CONVERT THE BUG #12 WELL, SECTION 21, TOWNSHIP 36 SOUTH, RANGE 26 EAST, SAN JUAN COUNTY, U'TAH, TO A SALT WATER DISPOSAL WELL.

#### CAUSE NO. UIC-048

THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that Wexpro Company, 79 South State, P. O. Box 11070, Salt Lake City, Utah, 84147 has requested administrative approval from the Division to convert the Bug #12 well, located in the NE1/4 NW1/4 of Section 21, Township 36 South, Range 26 East, San Juan County, Utah to a salt water disposal well.

The proposed operating data for the well is as follows:

Injection Interval: Desert Creek Formation 6162' to 6318'

Maximum EstimatedSurface Pressure: 2050 psig

Maximum Estimated Rate: 3000 BWPD

If no objections are filed with the Division of Oil, Gas and Mining within fifteen days after publication of this Notice, administrative approval of this application will be granted by the Division Director. Objections, if any, should be mailed to: Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

DATED this 7th day of December, 1984.

STATE OF UTAH
DIVISION OF OIL, GAS
AND MINING
s/ MARJORIE L. LARSON

Administrative Assistant Published in The San Juan Recor December 19, 1984.

I, Joyce Martin, and duly sworn, depose and say that I am the publisher of the San Juan Record, a weekly newspaper of general circulation published at Monticello, Utah, every Todans Rusing Tahaa notice of avolibetion of administrations aroungval, Calas Do. 000-046 a copy of which is hereunto attached, was published in the regular and entire issue of each number of said newspaper for a period of 🛴 issues, the first publication having been made on December 19, 1984. and the last publication having been made on Signature Jose Co Working Subscribed and sworm to before me this 2000 day of Dagamban , A.D. 1 2984 Residing at Monticello, Utah My commission expires _ December 2, 1987



DEC 21 1984

OIL, GAS & MINING

# Affidavit of Publication

## STATE OF UTAH,

## **County of Salt Lake**

My Commission Expires

March 1, 1988

SS.

	Cheryl Gierloff
BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATUREAL RESOURCES STATE OF UTAH CAUSE NO. UIC-048 IN THE MATTER OF THE AP- PLICATION OF WEXPRO COMPANY FOR ADMINISTRA- TIVE APPROVAL TO CON- VERT THE BUG #12 WELL SECTION 21, TOWNSHIP 36 SOUTH, RANGE 26 EAST, SAN JUAN COUNTY, UTAH, TO A	Being first duly sworn, deposes and says that he/she is legal advertising clerk of THE SALT LAKE TRIBUNE, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah, and of the
THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED MAT- TER.	DESERET NEWS, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the
Notice is hereby given that Wexpro Company, 79 South State, P.O. Box 11070, Salt Lake City, Utah, 84147 has requested administrative approval from the Division to convert the Bug	State of Utah.  That the legal notice of which a copy is attached hereto
*12 well, located in the NEW, NWM of Section 21, Township 36 South, Range 26 East, San Juan County, Utan to a solt water dis- posal well. The proposed operating data	Cause No. UIC-048 - Application of Wexpro
or the well is as follows:  nlection interval: Desert Creek Formation 6162' to 6318' Annual Estimated Surface Pressure: 2050 psia	Company
Maximum Estimated Rate:  1000 BWPD  If no objections are filed with the Division of Oil, Gas and Min-	
ng within fifteen days after ublication of this Notice, ad- ninistrative approval of this pplication will be granted by the Division Director. Objectons, if any, should be mailed at Division of Qil, Gas and Min-	
10, 333 West North Temple, 3 irlad Center, Sulte 350, Salt ake City, Utan 84180-1203. DATED this 7th day of De-	was published in said newspaper on  Decmeber 19, 1984
STATE OF UTAH DIVISION OF OIL, GAS AND MINING MARJORIE L. LARSON	Al los late
Administrative Assistant	Legal Advertising Clerk
Subscribed and swo	orn to before me this
Janu	ary A.D. 19.85
	B.J. Davia
	Notary Public
	Language Commission

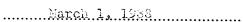
# Affidavit of Publication

## STATE OF UTAH,

SS.

	Cheryl Gierloff
BEFORE THE DIVISION OF	
OIL, GAS AND MINING DEPARTMENT OF	
NATURAL RESOURCES	Being first duly sworn, deposes and says that he/she is
STATE OF UTAH CAUSE NO. UIC-048	legal advertising clerk of THE SALT LAKE TRIBUNE,
IN THE MATTER OF THE AP-	
COMPANY FOR ADMINISTRA- TIVE APPROVAL TO CON-	a daily newspaper printed in the English language with
VERT THE BUG #12 WELL, SECTION 21, TOWNSHIP 36	general circulation in Utah, and published in Salt Lake
SOUTH, RANGE 26 EAST, SAN JUAN, COUNTY, UTAH, TO A	City, Salt Lake County, in the State of Utah, and of the
DISPOSAL I	DESERET NEWS, a daily newspaper printed in the
THE STATE OF UTAH TO	English language with general circulation in Utah, and
ALL INTERESTED PARTIES IN THE ABOVE ENTITLED MAT-	published in Salt Lake City, Salt Lake County, in the
TER.	State of Utah.
Wexpro Company, 79 South	
City, Utah, 84147 has requested administrative approval from	That the legal notice of which a copy is attached hereto
the Division to convert the Bug #12 well, located in the NE%	That the regar notice of which a copy is attached hereto
NVV # Of Section 21 Township 24	Cause No. UIC-048 - Application of Wexpro
South, Range 26 East, San Juan County, Utah to a salt water dis-	
posal well. The proposed operating data	Company
for the well is as follows:	······································
Injection Interval: Desert Creek Formation 6162' to 6318'	
Maximum Estimated Surface Pressure: 2050 psig	
Maximum Estimated Rate: 3000 BWPD	
If no objections are filed with	
the Division of Oil, Gas and Min- ing within fifteen days after	
ministrative approval of this	
application will be granted by the Division Director Object	
tions, it any, should be mailed to: Division of Oil Gas and Min	was published in said newspaper on
ing, 355 West North Temple, 3 Triad Center, Suite 350, Sait	The pro
Lake City, Utoh 84180-1203. DATED this 7th day of De-	Decmeber 19, 1984
cember, 1984.	
STATE OF UTAH DIVISION OF OIL,	11 Variety Original
GAS AND MINING MARJORIE L. LARSON	
E-24 Administrative Assistant	Legal Advertising Clerk
North marille and a serial account of the	L.C (1.1
Subscribed and sworn to	before me this day of
T manage of manage	A D 40 00
<u> </u>	A.D. 1985
	$\rho = \rho$
	5. J. Davie
	Notary Public

My Commission Expires







Scott M. Matheson, Governor Temple A. Reynolds, Executive Director Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

Riched up signed

January 7, 1985

This is another printout of the

Wexpro Company 79 South State PO Box 11070 Salt Lake City, Utah 84147

Gentlemen:

RE: Injection Well Approval - Cause No. UIC-048

Administrative approval is hereby granted to convert the below referenced well to a salt water disposal well. This approval is conditional upon full compliance with the UIC rules and regulations adopted by the Board of Oil, Gas and Mining, and construction and operation of the well as outlined in the application submitted.

Bug #12 Section 21, Township 36 South, Range 26 East San Juan County, Utah

If you have any questions concerning this matter, please do not hesitate to call or write.

Best regards,

Dianne R. Nielson Director

DN/CBF/mfp 010

5. LEASE DESIGNATION AND SERIAL NO.

### STATE OF UTAH **DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING**



										Fee		
WELL CO	MPLE	TION (	OR RECO	MPLET	ION I	REPOR	ΓΑΙ	ND LO	G *	6. IF INDIAN	, ALLOT	TTEE OR TRIBE NAME
1a. TYPE OF WEI		OII	GAS WELL					Dispos		7. UNIT AGRI	CEMENT	NAME
b. TYPE OF COM								LOISPOS	sar_		, DM BN 1	
WELL	WORK OVER	EN DEEP-	BACK [	DIF	svr.	The 1	1025			S. FARM OR	LEASE	NAME
2. NAME OF OPERA	ror						1000			Bug		
Wexpro C		У								9. WELL NO.		
3. ADDRESS OF OPE						MOISIN				12		
P. O. Bo	× 458	, Rock	Springs,	WY 8	2902 <b>G</b>	as & M	INN	G	_	10. FIELD AN	D POOL	, OR WILDCAT
4. LOCATION OF WE						y State req	uirem	ents)*		Bug		
At surface At top prod. in		-	FNL, 1928	B' FWL					-	11. SEC., T., I OR AREA	R., M., C	OR BLOCK AND SURVEY
At total depth										21-36S	-26E	E, SLB&M
				14. PI	ERMIT NO.		DAT	E ISSUED		12. COUNTY	OR	13. STATE
API 43-0	37-30.	595								San Ju	an	Utah
5. DATE SPUDDED	16. DA	TE T.D. REA	CHED   17. DAT	E COMPL.	(Ready t	o prod.)	18. EI	EVATIONS (E	of, RKB,	RT, GR, ETC.)*	19. F	LEV. CASINGHEAD
11-30-83				24-83				6577 <b>'</b>	KB 6	592.8'		-
O. TOTAL DEPTH, MD	& TVD	21. PLUG, 1	BACK T.D., MD &	TVD 22	2. IF MUL HOW M	TIPLE COM	PL.,	23. INT	ERVALS LLED BY	ROTARY TOO	LS	CABLE TOOLS
6370		6328				-			<del>-&gt;</del>	0-6370 <b>'</b>		
4. PRODUCING INTE	RVAL(S),	OF THIS CO	MPLETION—TOP	, BOTTOM,	, NAME ()	UD AND TV	D)*	······································			25	. WAS DIRECTIONAL SURVEY MADE
6162-617 6296-631				tion								
6296-631	AND OTHE	R LOGS RUN	i TOTILL							1	27. W	AS WELL CORED
	/FDC,	Origin	al Comple									
S. CASING SIZE	1 WES	HT, LB./FT.				ort all stri	ngs sei					
	-	SHT, LB./FT.			-1	LE SIZE	- -		IENTING	RECORD		AMOUNT PULLED
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5-1/2	$- -\frac{17}{}$		6369	.03	- 8 <del>-</del>	-3/8		740 sacl	KS			0
	_	·			-			<del> </del>	<del></del> .		.	
9.		7.1	NER RECORD		<u> </u>			1 00		TUNING THE		
SIZE	TOP (		OTTOM (MD)	SACKS C	The maint	CONTRA	(355)	30.		TUBING RECO		
			OITOM (MD)	SACKS	EMENT*	SCREEN	(MD)	SIZE		CIO/ OC	<u>D)</u>	PACKER SET (MD)
								$\frac{3-1/2}{}$	_	6134.36	.	6141.36
1. PERFORATION RE	CORD (Int	terval, size	and number)	· · · · · · · · · · · · · · · · · · ·		82.		CID SHOT	ED A CO	URE, CEMENT	l GOTT	THE DESC
6162-617	51	2 chote	per foot	· _ To	m 0.37			AL (MD)	1			
6296-631	21	2 shots 2 shots	per foot	. <u> </u>	шау	6162-				gal 15%		
0270 031		2 3110 (3	_	t Cre	۵k	0102	017.	,	4300	gar 13%	псь	Ismay
			Deser	r ore	CK	ļ			<del></del>			
3.*			<del></del>		PROI	OUCTION			<u> </u>	<del> </del>		
ATE FIRST PRODUCT	ION	PRODUCT	ION METHOD (F	lowing, g	as lift, pr	ımping—si	ze and	type of pun	np)			(Producing or
0											<i>t-in)</i> Shut	-in
ATE OF TEST	HOURS	TESTED	CHOKE SIZE	PROD'	N. FOR PERIOD	OIL—BÉI		GAS-MC	CF.	WATER—BBL		GAS-OIL BATIO
LOW. TUBING PRESS.	CASING	PRESSURE	CALCULATED	OIL-	BBL.	GAS	M CF	· · · · ·	WATER-	BBL.	OIL GR	AVITY-API (CORR.)
	1		24-HOUR RATE	•				1				
4. DISPOSITION OF G	AS (Sold	, used for fu	el, vented, etc.)							TEST WITNES	SED BY	
										H. R.	T.ppr	ar
5. LIST OF ATTACH	MENTS				<u></u>					11. 1.	nech	
None, we	11 wi	11 be 11	sed for w	ater	dispos	sal.						
None, we 6. I hereby certify	that the	foregoing	ind attached in	formation	n is comp	lete and co	rrect	as determine	ed from	all available re	ecords	
SIGNED	Kim	.)	1/. AN									. 7 07
DAULED L	7 7	11	wy	TI	TLE Di	rector	, Pe	erroleum	n Eng	ineer <mark>ing</mark> e	3	i-/-85



## WEXPRO COMPANY

79 SOUTH STATE STREET • P.O. BOX 11070 • SALT LAKE CITY, UTAH 84147 • PHONE (801) 530-2600

## RECEIVED

APR 03 1985

April 2, 1985

DIVISION OF OIL GAS & MINING

State of Utah
Natural Resources
Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84114
ATTN: Claudia Jones

Gentlemen:

RE: Bug 1,2,6,10,12, and 25

To follow up our telephone conversation, enclosed please find copies of well completion reports, on the Bug wells listed above.

Those wells are operated by Wexpro Company for Celsius Energy Company, all reporting will be completed by Wexpro Company for Celsius Energy Company.

If you have any further questions please call me at 530-2813.

Sincerely,

Mike Butcher

Revenue Accounting Supervisor

MB:sh

enclosures



Norman H. Bangerter, Governor Dee C. Hansen, Executive Director Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

September 18, 1985

Wexpro Company 79 South State P.O. Box 11070 Salt Lake City, Utah 84147

Gentlemen:

RE: Bug #12, Section 21, Township 36 South, Range 26 East, San Juan County, Utah

In reveiwing the file on the above mentioned well we have found that even though we are receiving injection reports on the above mentioned well we are lacking a form DOGM-UIC-5.

Please fill out the enclosed form and send it back to this office in order that we might update our files.

Thank you for your cooperation.

Sincerely,

Marlayne Poulsen UIC Secretary

mfp 0012U-28 FORM NO. DOGM-UIC-5 (1981)

#### STATE OF UTAH DIVISION OF OIL, GAS, AND MINING Room 4241 State Office Building Salt Lake City, Utah 8414 (801) 533-5771

RECEIVED

SEP 26 1985

RULE I-7 (d & e)

DIVISION UF WILL

NOTICE OF COMMENCEMENT) (TERMINATION) OF INJECTION (Circle appropriate heading)

Check Appropriate Classification:	Date of Commencements was a property of	
Disposal Well 🌃		
Enhanced Recovery Injection Well		
Enhanced Recovery Project		
Well NameBug Well No	o. 12	***
Location: Section Twp 36S	Rng. 26E, County San Juan	
Order No. authorizing Injection Cause No	• UIC-048 Date 1-7-85	· · · · · · · · · · · · · · · · · · ·
Zone into Which Fluid InjectedIsmay	and Desert Creek	
If this is a Notice of Termination	of injection, please indicate date well commence	ed injection.
If this is a Notice of Terminition of returned to production, indicate	finjection, please indicate if well is to be plugged of producing interval	r returned to production; if
	<b>,</b>	
		•
OperatorWexpro Company		
Address P. O. Box 458, Rock Spr	ings, Wyoming 82902	
Address		
	Signature Control Manager Pr	coduction & Drilling
	Signature Genétal Manager, Pr	oduction & Drilling
	September 23, 1985	
· · · · · · · · · · · · · · · · · · ·	Data	

INSTRUCTION: If this is notification of an enhanced recovery project injection termination, it must be accompanied by

an individual well status report for all project injection wells.

## CORE LABORATORIES, INC. ANALYTICAL REPORT

LAB #: 870646-1

#### WEXPRO COMPANY

WELL #: BUG #12 DISPOSAL

COUNTY: SAN JUAN STATE: UT

FORMATION:

DATE SAMPLED: 3-18-87

FIELD: BUG

LOCATION: SEC 13 36S 27E

INTERVAL:

SAMPLE ORIGIN: SAMPLE FROM TANKAGE

REMARKS:

	MG/L	MEQ/L	en de la companya de La companya de la co	MG/L	MEQ/L	MG/L
SODIUM POTASSIUM CALCIUM MAGNESIUM	46500 3070 30200 3400	2022.75 78.59 1504.98 279.48	SULFATE CHLORIDE CARBONATE BICARBONATE HYDROXIDE	152 % 141600 0 146	3.16 3993.12 0.00 2.40 0.00	CALC. SODIUM 49049 NACL ERUIVALENT 226379 CALC TDS* 0356 F 224994 API TDS* 0221 F 225068
TOTAL (	CATIONS	3887.80	TOTAL	ANIONS	3998.68	* TOTAL DISSOLVED SOLIDS
	OB	AT 68F (OH SERVED LCULATED	0.06 0.03 540 Na		OBSERVED PH	(Na value in above graph includes
<b>W</b> /	ATER ANALYS Scale MEQ per	<b>3</b>	54 Ca 54 Mg		HCO:	Na and K)
			54 Fe	N.	CO ₃	Sodium chloride equivalent by Dunlap & Hawthorne calculation from component

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted and the confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted and the confidential use, this report is made. The interpretations or opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted and the confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted and the confidential use, this report is made. The interpretations or opinions expressed in the confidential use, this report is made. The interpretations or opinions expressed in the confidential use, this report is made. The interpretations or opinions expressed in the confidential use, this report is used or relied upon the confidential use, the confidential use, this report is used or relied upon the confidential use, the confidential use, this report is used or relied upon the confidential use, the confidential

#### Form OGCC-1 b

16.

FRACTURE TREAT

REPAIR WELL

SHOOT OR ACIDIZE

	*	AVAILA	BLE		
0	GCC-1 be	and the second s	**************************************		
	STA	TE OF UTAH	SUBMIT IN TRIPLICATE® (Other instructions on re-	<u> </u>	
	OIL & GAS CONS	ERVATION COMMISSION	verse side)	5. LEASE DESIGNATION	AND SERIAL NO.
_				Fee	
	SUNDRY NOT	CES AND REPORTS ON	WELLS	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME
_	(Do not use this form for propos Use "APPLICA	als to drill or to deepen or plug back- TION FOR PERMIT—" for such proper	to a different reservoir.	<u>.</u> –	
1.	017.	alt Water Disposal Vel	D. VOCACA VA JA	7. UNIT AGREEMENT N	A M B
2.	NAME OF OPERATOR	The state of the s	APR 24 1987	8. FARM OR LEASE NA	ME
	Wexpro Company			Bug	
8.	ADDRESS OF OPERATOR		DIVISION OF	9. WELL NO.	
	P. O. Box 458, Rock Sp		DI! GAS & MINING	12	
4.	LOCATION OF WELL (Report location cl See also space 17 below.)	early and in accordance with any Stat	e requirements.*	10. FIELD AND POOL, (	R WILDCAT
	At surface		•	Bug Field	
	NE NW, 583' FNL, 1928'	FWL	· · · · · · · · · · · · · · · · · · ·	11. SEC., T., E., M., OR SURVEY OR AREA	
_	<u>.</u>			21-36S-26E	SLB&M
14.	PERMIT NO.	15. BLEVATIONS (Show whether DF, RT,	GR, etc.)	12. COUNTY OR PARISI	18. STATE
	43-037-30595	KB 6592.80', GR 657	7 <b>¹</b>	San Juan	Utah
16.	Check Ap	propriate Box To Indicate Natur	re of Notice, Report, or C	other Data	
	NOTICE OF INTEN			ENT REPORT OF:	
	TEST WATER SHUT-OFF	ULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING	WELL

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Annual Water Analysis

ALTERING CASING

(Note: Report results of multiple completion on Well ('ompletion or Recompletion Report and Log form.) (Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly State all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

Attached, please find a representative water analysis of the brine that is disposed of into the above captioned well. Should there be any questions concerning this, please advise.

18	8. I hereby certify that the foregoing is true and correct	TITLE Dir. of Petroleum Engineering April 22, 1987
=	(This space for Federal or State office use)	
	APPROVED BY	TITLE DATE



## CELSIUS ENERGY COMPANY

ROCK SPRINGS, WYOMING 82901 . PHONE (307) 382-9791

June 2, 1987

Bureau of Land Management P. O. Box 7 Monticello, Utah 84535 Bureau of Land Management 701 Camino del Rio Durango, Colorado 81301

#### Gentlemen:

Celsius Energy Company requests approval to transport and dispose of Desert Creek formation water from Spargo Wells No. 1-36 and No. 2 located in Dolores County, Colorado into the Bug No. 12 water disposal well located in Section 12, Township 36 South, Range 26 East, San Juan County, Utah.

Presently Desert Creek formation water is being produced at Spargo Well No. 2 located in Section 1, Township 38 North, Range 20 West, Dolores County, Colorado. The well is producing brine water at a rate of 70 barrels per day. To maintain consistent production, ten barrels of fresh water is being injected in the wellbore resulting in a total of 80 barrels of water disposal per day.

Spargo Well No. 1-36 located in Section 36, Township 39 North, Range 20 West, Dolores County, Colorado has not produced formation water to this date, however, it is anticipated that in the near future it will produce water comparable to the rate of Spargo Well No. 2. In our Southern Operation, the Desert Creek formation is a typical water producing zone.

The Bug No. 12 water disposal well during peak production periods was injecting 1970 barrels of water per day. At the present, the well is injecting 470 barrels of water per day. Most of the water which is being injected is produced from the Desert Creek formation. The well does have more than enough capacity for injection and because the produced water from the Spargo wells is typical Desert Creek, no compatability problems exist. (Please refer to the attached water analysis.)

At the present the Spargo water is being transported to Bug No. 12 by the following Dolores County Roads: No. 3, No. V, No. 4, No. T, No. 5, No. 6, No. P, No. R, No. Z and No. S, a distance of approximately 16 miles. In San Juan County, Road No. 347 is being utilized for approximately one mile.

If you require further information, please advise.

Respectfully. 11 describing

Cathy J. Flansburg

Coordinator of Regulatory Affairs



## United States Department of the Interior 3100

(U-065)

BUREAU OF LAND MANAGEMENT Moab District Office P. O. Box 970 Moab, Utah 84532

JUN 1 1 1987

Cathy J. Flansburg Coordinator of Regulatory Affairs Celsius Energy Company P. O. Box 458 Rock Springs, Wyoming 82901

Dear Ms. Flansburg:

Your request to dispose of water produced from the Desert Creek Formation in Spargo wells 1-36 and 2 into Bug No. 12 injection well is approved. The only stipulation is that you report the volume of water from each producing well which is injected into Bug No. 12 on the monthly report of operations.

We have discussed this matter with the San Juan Resource Area office in Durango, Colorado and they concur with this approval.

Sincerely,

District Manager

Delano Backus

cc: Bureau of Land Management San Juan Resource Area Branch of Fluid Minerals 701 Camino del Rio Durango, CO 81301

## ANALYTICA EPORT

LAB 4: 870646-1

## WEXPRO COMPANY

WELL #: BUG #12 DISPOSAL

COUNTY! SAN JUAN STATE: UT

FORMATION!

DATE SAMPLED: 3-18-87

FIELDA BUG

LOCATION: SEC 13 365 27E

INTERVALI

SAMPLE ORIGIN: SAMPLE FROM TANKAGE

REMARKS!

		•	•					
	MG/L	REGAL			,	MG/L	MEG/L	HO/L
SODIUK POTASSIUM CALCIUM HAGNESIUN	44500 3070 30200 3400	2022.75 78.59 1506.98 279.48	CH CA BI	LFATE LORIDE RBONATE CARBONATE DROXIDE	÷	152 141400 0 146	3.16 3973.12 0.00 2.40 0:00	CALC. SODIUM 49049 NACL EQUIVALENT 226379 CALC TOS* 0356 F 224994 API TOS* 0221 F 225068  * TOTAL DISSOLVED SOLIDS
TOTAL	CATIONS	3887.80	· : •	TOTAL	ANI	ONS	3998,68	an and an are an are the second fine terms are secured as the second and the second are second
	O E		540 54	Na Ca Mg			OBSERVED #1:  C1  HCO  SO4	(Na. value in above graph includes Na and K)  NOTE: Mg/1 = milligrams per liter Meq/1 = milligram equivalent per liter  Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

iminions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or aginions the best judgment of Care Laboratories, Inc. (all errors and amissions excepted); but Care Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or interpretations or Care Laboratories, Inc. (all errors and amissions excepted); but Care Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or interpretations or profitableness of any all, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon.

## WATER ANALYSIS REPORT

TO ERIC MARSH		DATE 4/8/87						
TELO Sparan			YST Jance					
	Freshuster	Buine Freduced	·					
	#2 Form.	#2						
	7.45	283						
esistivity								
m metersF			:					
ATIONS								
odium , Na	707 ppm	35,500 ppm						
alcium , Ca	340 ppm	47,200 ppm.						
agnesium , Mg		8362 ppm						
orium , Bo								
NONS	1,650	•						
hloride , Cl	Maga ppm	163,000 ppm	•					
ulfate , 504	Oppm	opom	,					
mate, CO ₃	<u>Oppm</u>	Oppm						
licarbonate , HCO3	406 ppm	55,463,72m						
TOTAL DISSOLVED	4/30 000	364000 000						
OLID	4,630,000	364,000 ppm						
ron , Fe	1000 000	_3.123 ppm						
Manganese, Mn								
REMARKS :	WFresh"	sample						
	25 Bring"	Sanale						
	IOBENIPL.	4DEWPD						



## WEXPRO COMPANY

79 SOUTH STATE STREET • P. O. BOX 11070 • SALT LAKE CITY, UTAH 84147 • PHONE (801) 530-2600

July 31, 1987

RECEIVED

AUG 3 1987

DIVISION OF OIL **GAS & MINING** 

State of Utah Department of Natural Resources Division of Oil, Gas, and Mining 355 West North Temple 3 Triad Center Suite 350 Salt Lake City, UT 84180-1203

ATTN: Gil Hunt

Gentlemen:

RE: Bug 12 - Salt Water Disposal Additional Saltwater Sources

UIC-048

Per our telephone conversation of July 31, 1987, attached is Wexpro Company's sundry notice requesting approval to dispose of produced waters from our Spargo Well No. 1-36 and Spargo Well No. 2 into the Desert Creek Formation at Bug Well No. 12. Also attached is supporting documentation for our request.

Should you have any questions or require further information, please advise.

Sincerely,

Jeffrey L. Ingerson

Senior Petroleum Engineer

Coordinator of Environmental Affairs

:rj

Attachments (5)

# Copied - sent 8/4/87 mp

### STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, ANI	D MINING	5. LEASE DESIGNATION AND SERIAL NO.
		Fee
SUNDRY NOTICES AND REPOR  (Do not use this form for proposals to drill or to deepen of  Use "APPLICATION FOR PERMIT—" for	TS ON WELLS plug back to a different reservoir.	6. IF INDIAN, ALLOTTES OR TRIBE NAME
1.	seed proposition	7. UNIT AGREEMENT NAME
WELL GAR Salt Water Disp	oosal Well	
2. NAME OF OPERATOR		8. FARM OR LEASE NAME
WEXPRO COMPANY		Bug
8. ADDRESS OF OPERATOR		0. WELL NO.
79 South State Street; P. O. Box 11070 LOCATION OF WELL (Report location clearly and in accordance with		
See also space 17 below.) At surface	n any State requirements.	Bug Field
ATT ANY COST THAT LOOS THAT		11. anc., T., E., M., OR BLE, AND
NE NW, 583' FNL, 1928' FWL		SURVEY OR ARMA
		21-36S-26E
14. PERMIT NO. API #43-037-30595    16. BLEVATIONS (Show whether the state of the s		12. COUNTY OR PARISH 18. STATE
API #43-037-30595 KB 6592.80* C	GL 6577.00'	San Juan Utah
16. Check Appropriate Box To Indica	ate Nature of Notice, Report, or C	ther Data
NOTICE OF INTENTION TO:		ENT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CASING		· · · · · · · · · · · · · · · · · · ·
FRACTURE TREAT MULTIPLE COMPLETE	WATER SHUT-OFF FRACTURE TREATMENT	RETAIRING WELL ALTERING CASING
SHOOT OR ACIDIZE ABANDON®	SHOUTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL CHANGE PLANS	(Other)	
(Other) Addition Salt Water Sources X	('ompletion or Recomple	of multiple completion on Weil etion Report and Log form.)
<ol> <li>DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all per proposed work. If well is directionally drilled, give subsurface nent to this work.)</li> </ol>	rtinent details, and give pertinent dates,	including estimated date of starting any
Wexpro Company requests approval to dispose Spargo Wells No. 1-36 and No. 2 into the Bu Spargo Well No. 1-36 is located in Section County, Colorado.	ug No. 12 Salt Water Dispo	osal Well.
Spargo Well No. 2 is located in Section 1; Colorado.		
Currently, only the Spargo Well No. 2 produce anticipated to produce formation water in to the Desert Creek and no compatability produces.	the near future. The prod	buced trater is tunion!
Wexpro Company proposes to dispose of this in Section 21; Township 36 South; Range 26 is an approved salt water disposal well and sources will conform to the approval given	East; San Juan County, Ut I injection of water from	sh Rug Uoll No 12
18. I hereby certify that the foregoing is true and correct	APPF OF	ROVED BY THE STATE UTAH DIVISION OF GAS, AND MINING E:
<i>f 11</i>	Conton Dobrola Fact	0/0/07
SIGNED TITLE	Senior Petroleum Engineer	DATE 8/3/87
(This space for Federal or State office use)		RECEIVED
COMMAL. 'S OF APPROVAL IF ANY:	**************************************	AUG 3 1987
		VOG O TOOL

DIVISION OF OIL GAS & MINING

*See Instructions on Reverse Side

Form .	3160	-5
(Nove	mber	1983)
(Form	erly	9-331)

Budget Bureau No. 1004- Expires August 31, 1985	(::
LEASE DESIGNATION AND SERIAL	. N

	SUBMIT IN TRIPLICATE* (Other lustructions verse side)	Expires August 5. LEASE DESIGNATION
--	-------------------------------------------------------	-------------------------------------

BUREAU OF LAND MANAGEME	NT Fee
SUNDRY NOTICES AND REPORTS  (Do not use this form for proposals to drill or to deepen or pluse "APPLICATION FOR PERMIT—" for such	back to a different reservoir.
	7. UNIT AGREEMENT NAME
WELL GAS OTHER Salt Water Disposa	
NAME OF OPERATOR	8. FARM OR LEASE NAME
Wexpro Company	Bug
Wexpro Company  Address of Operator	9. WELL NO.
P. O. Box 458, Rock Springs. Wyoming 82 LOCATION OF WELL (Report location clearly and in accordance with a See also space 17 below.)	202  Dy State requirements.  10. FIELD AND POOL, OR WILDCAT
At surface	Bug Field
NE NW, 583' FNL, 1928' FWL	11. SEC., T., R., M., OR BLK. AND SURVEY OR ARMA
	21-36S-26E SLB&M
4. PERMIT NO. 15. ELEVATIONS (Show whether	DF, RT, GR, etc.) 12. COUNTY OR PARISH 13. STATE
43-037-30595 KB 6592.80' GR	6577' San Juan Utah
6. Check Appropriate Box To Indicate	Nature of Notice, Report, or Other Data
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CASING	WATER SHUT-OFF REPAIRING WELL
FRACTURE TREAT MULTIPLE COMPLETE	FRACTUBE TREATMENT ALTERING CASING
SHOOT OR ACIDIZE ABANDON*	SHOOTING OR ACIDIZING ABANDONMENT*
REPAIR WELL CHANGE PLANS	(Other) Water Analysis X
(Other)	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
proposed work. If well is directionally drilled, give subsurface lonent to this work.) *	ent details, and give pertinent dates, including estimated date of starting are cations and measured and true vertical depths for all markers and zones perturbed of the disposal well that disposes of brine from
10 different wells. These wells are:	
1. Bug Well No. 4 - NE SW, Sec. 16, T.	

- Bug Well No. 13 NE NW, Sec. 17, T. 36 S., R. 26 E. 3.
- Bug Well No. 14 NE SE, Sec. 17, T. 36 S., R. 26 E.
- Bug Well No. 15 NE NE, Sec. 17, T. 36 S., R. 26 E.
- Bug Well No. 16 NE SW, Sec. 17, T. 36 S., R. 26 E.
- Bug Well No. 17 NE SE, Sec. 16, T. 36 S., R. 26 E. Ucolo Well No. 2 - SW NE, Sec. 10, T. 36 S., R. 26 E.
- Spargo Well No. 1-36 SW SW, Sec. 36, T. 39 N., R. 20 E.
- 10. Spargo Well No. 2 SE NW, Sec. 1, T. 38 N., R. 20 W.

Attached is a representative water analysis of the water that is injected into Bug Well No. 12.

DATE 7-21-87
RECEIVED

*See Instructions on Reverse Side

AUG 7 1987

**DIVISION OF OIL** 

Form 3160-5
(November 1983)
(Formerly 9-331)

# STATES SUBMIT IN TRIPL F THE INTERIOR (Other instructions verse side)

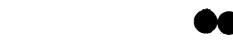
	Budget Burcau No. Expires August 31.	1004-0 1985	; 3
5.	LEASE DESIGNATION AND	SERIAL.	A

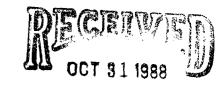
	BUREAU OF LAND MANAGEMENT							
SUNDRY NC (Do not use this form for pro-	Fee 6 IF INDIAN, ALLOTTEE OR TRIBE SAME							
			7. UNIT AGREEMENT NA	NE				
OIL GAS OTHER								
. NAME OF OPERATOR	8. FARM OR LEASE NAM	M.E.						
	Rug							
Wexpro Company  Address of Operator		The second secon	8. WELL NO.					
D O D /50 D1	Grades Hrandes 920	വാ	12					
LOCATION OF WELL (Report location	Springs. Wyoming 829 of clearly and in accordance with any	State requirements.	10. FIELD AND POOL, O	R WILDCAT				
See also space 17 below.) At surface			Bug Field	٠				
NE NE 500 ENT 10	11. SEC., T., R., M., OR							
NE NW, 583' FNL, 19	720 FWL		SURVEY OR AREA					
		·	21_26C_26F C	TDSM				
. PERMIT NO.	15. ELEVATIONS (Show whether D	F, RT, GR. etc.)	21-36S-26E S 12. COUNTY OR PARISE	LDOM 1 13. STATE				
43-037-30595	KB 6592.80' GR 6	5771	C T	Treat				
			San Juan	<u>  Utah</u>				
Check A	Appropriate Box To Indicate 1	Nature of Notice, Report, or	Other Data					
NOTICE OF INT	TENTION TO:	SUBSEC	QUENT REPORT OF:					
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING 1	WELL.				
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING C.	1				
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ABANDONME					
REPAIR WELL	CHANGE PLANS	(Other) Water Analy	<del></del>	$\frac{1}{x}$				
(Other)	-	(NOTE: Report result	ts of multiple completion pletion Report and Log for	on Well				
10 different wells.	These wells are:							
1. Bug Well No. 4	- NE SW, Sec. 16, T.	36 S., R. 26 E.						
2. Bug Well No. 10	) - NE NW, Sec. 22, T.							
3. Bug Well No. 13		36 S., R. 26 E.						
3. Dag 1.0. 13	B - NE NW, Sec. 17, T.							
4. Bug Well No. 14	- NE SE, Sec. 17, T.	36 S., R. 26 E. 36 S., R. 26 E.						
4. Bug Well No. 14		36 S., R. 26 E. 36 S., R. 26 E.						
4. Bug Well No. 14 5. Bug Well No. 15 6. Bug Well No. 16	- NE SE, Sec. 17, T. - NE NE, Sec. 17, T. - NE SW, Sec. 17, T.	36 S., R. 26 E. 36 S., R. 26 E. 36 S., R. 26 E. 36 S., R. 26 E.						
4. Bug Well No. 14 5. Bug Well No. 15 6. Bug Well No. 16	- NE SE, Sec. 17, T. 5 - NE NE, Sec. 17, T.	36 S., R. 26 E. 36 S., R. 26 E. 36 S., R. 26 E. 36 S., R. 26 E.						
4. Bug Well No. 14 5. Bug Well No. 15 6. Bug Well No. 16 7. Bug Well No. 17 8. Ucolo Well No.	- NE SE, Sec. 17, T. - NE NE, Sec. 17, T. - NE SW, Sec. 17, T. - NE SE, Sec. 16, T. 2 - SW NE, Sec. 10, T	36 S., R. 26 E. 36 S., R. 26 E. 36 S., R. 26 E. 36 S., R. 26 E. 36 S., R. 26 E. . 36 S., R. 26 E.						
4. Bug Well No. 14 5. Bug Well No. 15 6. Bug Well No. 16 7. Bug Well No. 17 8. Ucolo Well No. 9. Spargo Well No.	- NE SE, Sec. 17, T. - NE NE, Sec. 17, T. - NE SW, Sec. 17, T. - NE SE, Sec. 16, T. 2 - SW NE, Sec. 10, T. 1-36 - SW SW, Sec. 3	36 S., R. 26 E. 36 S., R. 26 E. 36 S., R. 26 E. 36 S., R. 26 E. 36 S., R. 26 E. . 36 S., R. 26 E. 6, T. 39 N., R. 20 E.						
4. Bug Well No. 14 5. Bug Well No. 15 6. Bug Well No. 16 7. Bug Well No. 17 8. Ucolo Well No. 9. Spargo Well No.	- NE SE, Sec. 17, T. - NE NE, Sec. 17, T. - NE SW, Sec. 17, T. - NE SE, Sec. 16, T. 2 - SW NE, Sec. 10, T	36 S., R. 26 E. 36 S., R. 26 E. 36 S., R. 26 E. 36 S., R. 26 E. 36 S., R. 26 E. . 36 S., R. 26 E. 6, T. 39 N., R. 20 E.	· · · · · · · · · · · · · · · · · · ·					
4. Bug Well No. 14 5. Bug Well No. 15 6. Bug Well No. 16 7. Bug Well No. 17 8. Ucolo Well No. 9. Spargo Well No. 10. Spargo Well No.	- NE SE, Sec. 17, T. - NE NE, Sec. 17, T. - NE SW, Sec. 17, T. - NE SE, Sec. 16, T. 2 - SW NE, Sec. 10, T. 1-36 - SW SW, Sec. 3	36 S., R. 26 E. 36 S., R. 26 E. 6, T. 39 N., R. 20 E. 38 N., R. 20 W.	,	to Bug				
4. Bug Well No. 14 5. Bug Well No. 15 6. Bug Well No. 16 7. Bug Well No. 17 8. Ucolo Well No. 9. Spargo Well No. 10. Spargo Well No. Attached is a representation	- NE SE, Sec. 17, T. - NE NE, Sec. 17, T. - NE SW, Sec. 17, T. - NE SE, Sec. 16, T. 2 - SW NE, Sec. 10, T. 1-36 - SW SW, Sec. 3 2 - SE NW, Sec. 1, T	36 S., R. 26 E. 36 S., R. 26 E. 6, T. 39 N., R. 20 E. 38 N., R. 20 W.	,	to Bug				
4. Bug Well No. 14 5. Bug Well No. 15 6. Bug Well No. 16 7. Bug Well No. 17 8. Ucolo Well No. 9. Spargo Well No. 10. Spargo Well No. Attached is a representation.	- NE SE, Sec. 17, T. - NE NE, Sec. 17, T. - NE SW, Sec. 17, T. - NE SE, Sec. 16, T. 2 - SW NE, Sec. 10, T. 1-36 - SW SW, Sec. 3 2 - SE NW, Sec. 1, T	36 S., R. 26 E. 36 S., R. 26 E. 6, T. 39 N., R. 20 E. 38 N., R. 20 W.	,	to Bug				
4. Bug Well No. 14 5. Bug Well No. 15 6. Bug Well No. 16 7. Bug Well No. 17 8. Ucolo Well No. 9. Spargo Well No. 10. Spargo Well No. Attached is a representation	- NE SE, Sec. 17, T. - NE NE, Sec. 17, T. - NE SW, Sec. 17, T. - NE SE, Sec. 16, T. 2 - SW NE, Sec. 10, T. 1-36 - SW SW, Sec. 3 2 - SE NW, Sec. 1, T	36 S., R. 26 E. 36 S., R. 26 E. 6, T. 39 N., R. 20 E. 38 N., R. 20 W.	,	to Bug				
4. Bug Well No. 14 5. Bug Well No. 15 6. Bug Well No. 16 7. Bug Well No. 17 8. Ucolo Well No. 9. Spargo Well No. 10. Spargo Well No. Attached is a representation	- NE SE, Sec. 17, T. - NE NE, Sec. 17, T. - NE SW, Sec. 17, T. - NE SE, Sec. 16, T. 2 - SW NE, Sec. 10, T. 1-36 - SW SW, Sec. 3 2 - SE NW, Sec. 1, T	36 S., R. 26 E. 36 S., R. 26 E. 6, T. 39 N., R. 20 E. 38 N., R. 20 W.	,	to Bug				
4. Bug Well No. 14 5. Bug Well No. 15 6. Bug Well No. 16 7. Bug Well No. 17 8. Ucolo Well No. 9. Spargo Well No. 10. Spargo Well No. Attached is a representation.	- NE SE, Sec. 17, T NE NE, Sec. 17, T NE SW, Sec. 17, T NE SE, Sec. 16, T. 2 - SW NE, Sec. 10, T. 1-36 - SW SW, Sec. 3 2 - SE NW, Sec. 1, T. sentative water analys	36 S., R. 26 E. 36 S., R. 26 E. 6, T. 39 N., R. 20 E. 38 N., R. 20 W.	,	to Bug				
4. Bug Well No. 14 5. Bug Well No. 15 6. Bug Well No. 16 7. Bug Well No. 17 8. Ucolo Well No. 9. Spargo Well No. 10. Spargo Well No. Attached is a representation.	- NE SE, Sec. 17, T NE NE, Sec. 17, T NE SW, Sec. 17, T NE SE, Sec. 16, T. 2 - SW NE, Sec. 10, T. 1-36 - SW SW, Sec. 3 2 - SE NW, Sec. 1, T sentative water analys	36 S., R. 26 E. 36 S., R. 26 E. 6, T. 39 N., R. 20 E. 38 N., R. 20 W.	is injected in	to Bug 1-87				
4. Bug Well No. 14 5. Bug Well No. 15 6. Bug Well No. 16 7. Bug Well No. 17 8. Ucolo Well No. 9. Spargo Well No. 10. Spargo Well No. Attached is a representation of the second of the s	- NE SE, Sec. 17, T NE NE, Sec. 17, T NE SW, Sec. 17, T NE SE, Sec. 16, T. 2 - SW NE, Sec. 10, T. 1-36 - SW SW, Sec. 3 2 - SE NW, Sec. 1, T  sentative water analys  Is true and correct  TITLE Di	36 S., R. 26 E. 36 S., R. 26 E 36 S., R. 26 E 38 N., R. 20 E 38 N., R. 20 W.	is injected in	1-87				

NOTED PLB 8/20/87

*See Instructions on Reverse Side

AUG 3 1 1987









#### **CELSIUS ENERGY COMPANY**

P.O. BOX 458

ROCK SPRINGS, WYOMING 82902

PHONE (307) 382-9791

October 24, 1988

Bureau of Land Management Division of Mineral Resources Federal Building 701 Camino del Rio Durango, Colorado 81301 Utah Oil, Gas and Mining 355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203

43-037- 30595

#### Gentlemen:

Celsius Energy Company requests approval to dispose of Desert Creek formation water from Cutthroat Unit Wells No. 1, 3, 4 and 5. Cutthroat No. 1 is located in the SW SE of Section 10, Township 37 North, Range 19 West, Montezuma County, Colorado, Lease No. C-11647. Cutthroat No. 3 is located in the SE SW of Section 23, Township 37 North, Range 19 West, Montezuma County, Colorado, Lease No. C-10364-A. Cutthroat No. 4 is located in the SE NW of Section 10, Township 37 North, Range 19 West, Montezuma County, Colorado, Fee Lease. Cutthroat No. 5 is located in the SW NE of Section 26, Township 37 North, Range 19 West, Montezuma County, Colorado, Lease No. C-37438.

Currently Cutthroat No. 1 and No. 4 are averaging 100 barrels of produced water per well per day and Cutthroat No. 3 and No. 5 are averaging 75 barrels of produced water per well per day. The average amount of produced water per day to be disposed of is 350 barrels.

Wexpro Company proposes to dispose of this produced water at its Bug Well No. 12 located in the NE NW of Section 21, Township 36 South, Range 26 East, San Juan County, Utah, Fee Lease. The amounts to be disposed will be reported on the Monthly Injection Report.

The haul route will be on Unit, field, State and County roads over which Wexpro and Celsius Energy Company have applicable rights-of-way.

If you have any questions, please contact me.

Sincerely,

Cathy JAFlansburg

Coordinator, Regulatory Affairs

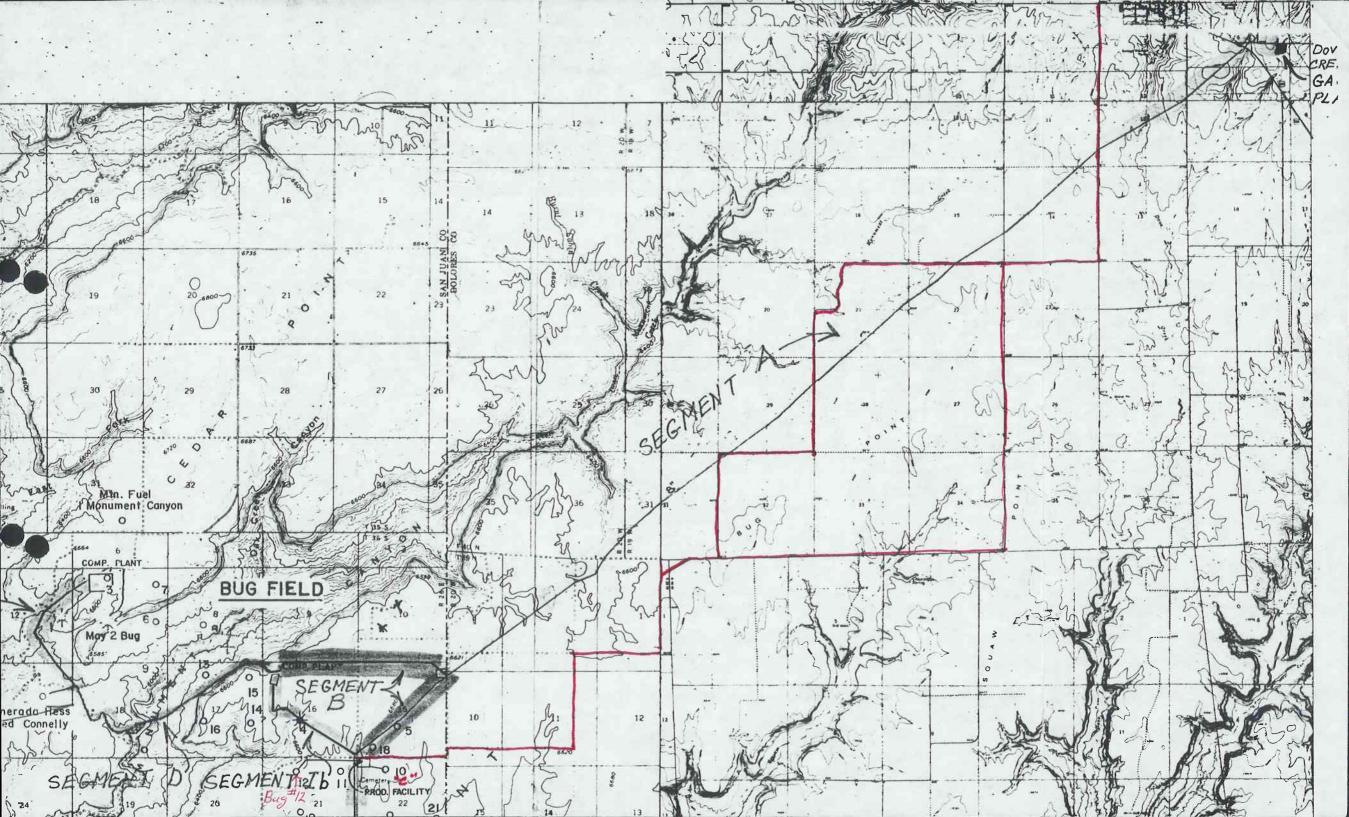
CJF/hbc

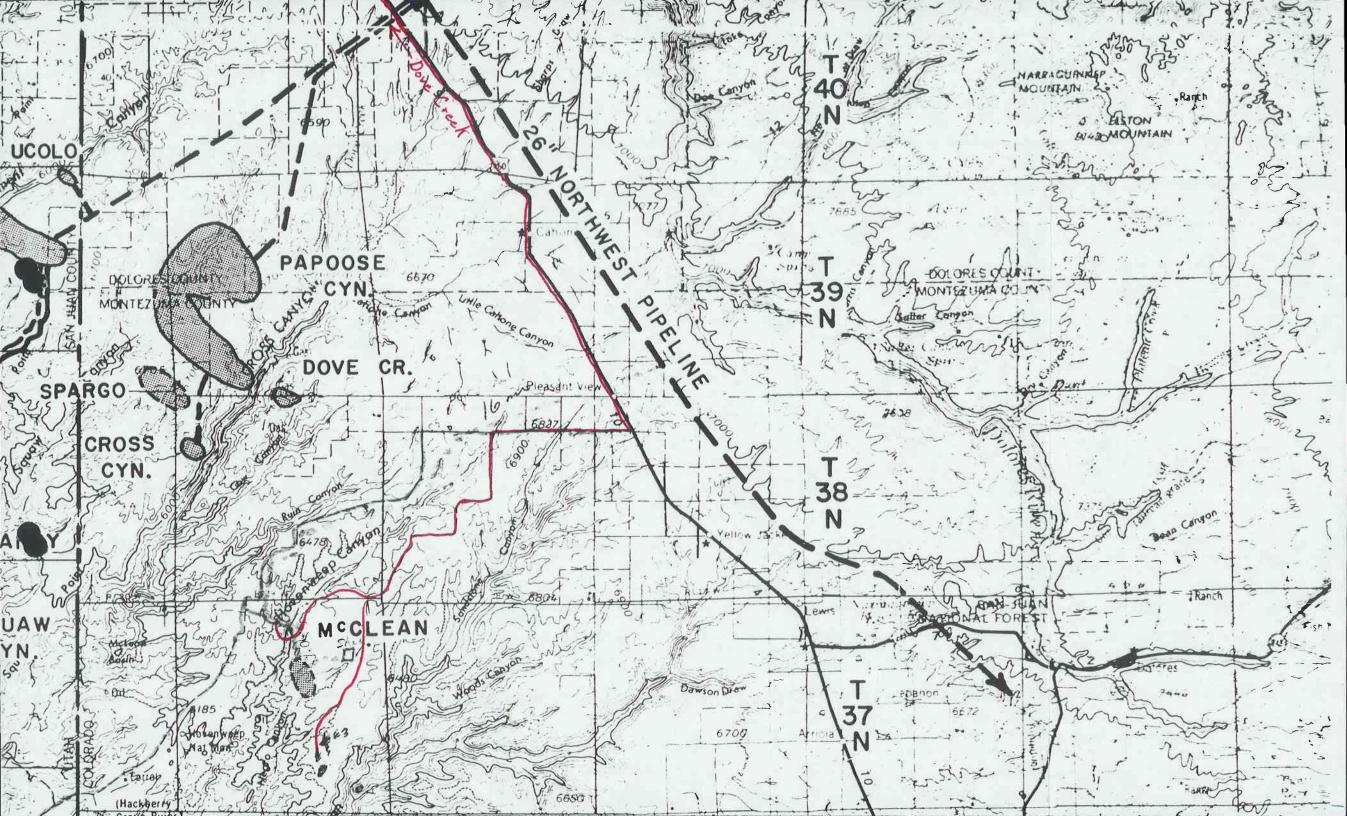
Enclosures: Haul Road Map

Water Analysis

# WATER ANALYSIS REPORT

telly Werkele	ug	DA	ITE 10/25/88	3
FIELD Bug		An	IALYST Tomics	
_L	NPA	SPA		
	<u> </u>	7.43		
istivity				
n metersF				-
rions				
lium , Na	14,392 ppm	7168 ppm	***************************************	
clum, Ca	9560 ppm			
gnesium , Mg	1385ppm	778 ppm		
lum , Ba				
IONS				
loride , Cl	42,600,2pm	_22,700 ppm		-
fate, SO ₄	42 ppm	<u> </u>		•
rbonate, CO3	Opm	<u> </u>		
carbonate , HCO ₃	1000 ppm	<u> </u>		
TAL DISSOLVED	69,300 ppm	_3.7000 ppm	1	•
n , Fe	Opm	Oppn	7	
nganese, Mn		***	·	
MARKS	b) Sample	1,10-18-88	1. OFF 3-pl	Base
	2) Sample	10-18-88.	Off 3-260	· · · · · · · · · · · · · · · · · · ·







DATE 10	/04/RB	ı	DIVISION OF OIL PRODUCTIO	ATURAL GAS H REP	RESQU ND MIN	RCES ING		
THISHP			*******JÜ GTR MO API ZONE ENTITY		88 * * * *			PAGE 160
36 \$			NENN S 43-037-31030 ISMY 10774 OPERATOR: NO185 SAMEDAN OIL CORPORATION HELL NAME: MUSTANG UNIT 27-21 FIELD: 415 MUSTANG FLAT	DAYS PROD	OIL(BBL) GAS(MCF) HATER(BBL)	HONTHLY Y	'EAR-TO-DATE 1,444 3,119 81	CLHULATIVE 11,672 29,841 1,557
36 S			NESE S 43-037-31104 ISMY 10774 OPERATOR: NOISS SAMEDAN OIL CORPORATION MELL NAME: MUSTANG UNIT #27-43 FIELD: 415 MUSTANG FLAT	26	OIL(BBL) GAS(MCF) HATER(BBL)	176 754 0	1.548 6,681 289	12,597 46,584 3,686
36 S	23 E	27	SEME S 43-037-31325 ISMY 10774 OPERATOR: NOIBS SAMEDAM OIL CORPORATION HELL NAME: MUSTAMG UNIT 27-42 FIELD: 415 MUSTAMG FLAT	28	OIL(BBL) GAS(MCF) MATER(BBL)	7,044 0	6,960 45,552 76	15,504 68,366 192
36 \$			SHNE S 43-037-31025 ISMY 10774 OPERATOR: NOISS SAMEDAN OIL CORPORATION HELL HAME: MUSTANG UNIT 27-32 FIELD: 415 MUSTANG FLAT		OIL(BBL) GAS(MCF) MATER(BBL)	11,448	80,007 0	39, 413 535, 332 2, 291
36 \$			NESH S 43-037-31378 10836 OPERATOR: N7400 YATES PETROLEUM CORP MELL NAME: LEMS DRAW FEDERAL #1 FIELD: 1 HILDCAT	• 0	OIL(BBL) GAS(MCF) HATER(BBL)	0	9	0 0
36 \$			SWMM S 43-037-31426 ISMY 10888 OPERATOR: NOI85 SAMEDAN OIL CORPORATION HELL NAME: HILD STALLION UNIT #1 FIELD: 2 UNDESIGNATED	0	OIL(BBL) GAS(MCF) HATER(BBL)	REPORT RECEIVED	O O FOR THE CURRENT	PERIOD * * *
36 S			NHSH S 43-037-31184 99998 OPERATOR: N7370 M E P N A HELL NAME: CEDAR POINT F-13-12G FIELD: 2 UNDESIGNATED	0	GIL(BBL) GAS(MCF)	REPORT RECEIVED	0,	9
36 S	25 E		SESE S 43-037-30909 HNKRT 6031 OPERATOR: NO385 AMPOLEX (TEXAS) INC. HELL NAME: HORSEHEAD POINT 18-44 FIELD: 484 UNNAMED 18-36525E	<b>G</b>	OIL(BBL) GAS(MCF)	REPORT RECEIVED A	. 8	0 3, 500
36 \$	26 E		INSH S 43-037-30874 HNKRT 1076 OPERATOR: M4850 CELSIUS ENERGY COMPANY HELL NAME: UCOLO #1 FIELD: 477 UCOLO	. •	OIL(BBL) GAS(MCF) MATER(3BL)	0	0	6 0 0
36 S	26 E		IESE S 43-037-30573 DSCR 1000 OPERATOR: N1070 NEXPRO COMPANY MELL NAME: BUG #6 FIELD: 320 BUG	0	OIL(BBL) GAS(MCF) MATER(BBL)	0	0	34,583 111,529 743
2 36	26 E		ESM S 43-037-30543 DSCR 1000 DPERATOR: M1070 MEXPRO COMPANY MELL NAME: BUG #2 FIELD: 320 BUG	26	GIL(BBL) GAS(MCF) MATER(BBL)	2,024 4,666 27,654	16,890 37,707 188,043	299,089 724,281 1,267,640
36 S	26 E		ESH S 43-037-30589 HNKRT 9910 OPERATOR: N1070 WEXPRO COMPANY HELL NAME: BUG #8 FIELD: 320 BUG	. 0	OIL(BBL) GAS(MCF) HATER(BBL)	0	0	· c
			NNE S 43-037-30870 DSCR OPERATOR: N4850 CELSIUS EMERGY COMPANY HELL NAME: UCOLO #2 FIELD: +77 UCOLO	31	GIL(BBL) GAS(MCF) HATER(BBL)	4,256 124	21.311 21.001 124	75,444 1,022,904 195
			ESE S 43-037-30793 DSCR 995 OPERATOR: N1070 MEXPRO COMPANY MELL NAME: BUG #17 FIELD: 320 BUG	17	OIL(BBL) GAS(MCF) MATER(BBL)	146 0 0	1,066 0 40	11,364 17,701 17,454
			ESN S 43-037-30542 DSCR 995 OPERATOR: N1070 MEXPRO COMPANY MELL NAME: BUG #4 FIELD: 320 BUG	31	OIL(BBL) GAS(MCF) HATER(BBL)	1,218 371	4,717 7,679 2,924	185,835 314,647 21,234
			NE S 43-037-30606 DSCR 1020 OPERATOR: N1070 HEXPRO COMPANY HELL NAME: BUG #15 FIELD: 320 BUG	28	OIL(BBL) GAS(MCF) MATER(BBL)	4,041 0	3,459 33,706 5	122;24 142;24
36 \$	26 E	17 N	NM S 43-037-30610 DSCR 1020 OPERATOR: N1070 HEXPRO COMPANY HELL NAME: BUG #13 FIELD: 320 BUG	28.	OTL(BBL) GAS(MCF) MATER(BBL)	1.317	10,847 49,647	240:19
			SE S 43-037-30605 DSCR 1020 OPERATOR: M1070 MEXPRO COMPANY MELL NAME: BUG #14 FIELD: 320 BUG	31	OIL(88L) GAS(MCF) HATER(88L)	1,087 1,865 7,221	5.649 10.623 19.596	271, 250 383, 540 198, 126
36 2 :	26 E	17 H!	SM S 43-037-30607 DSCR 1020 OPERATOR: N1070 HEXPRO COMPANY HELL NAME: BUG #16 FIELD: 320 BUG	0	OIL(BBL) GAS(MCF) MATER(BBL)	0	0	176.264 268.061 575.905
36 \$ ;	26 E	18 NE	NE S 43-037-30604 DSCR 1005 CPERATOR: N1070 MEXPRO COMPANY MELL NAME: BUG #9 FIELD: 320 BUG	0	OIL(BBL) GAS(MCF) HATER(BBL)	0	0	216:00% 339:34

D	Ε	P	A	R	Ţ	М	Ε	N	T	F. 0	F	N	A	TI	U R	. A	L		₹ E	S	O i	JR	_C	ES	
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nATE 1	0/04/88			DIAIZ	PRCD	ຸກ <b>ຕັ</b> ້ງ ເ	N R LY	È P Ô	8 7 8 8 8 8 8 8 8	**		PAGE 161
THISHP		SEC	QTR MD	API		ENTITY	DAYS				YEAR-TO-DATE	CUMULATIVE
36 S	26 E	21	NENH S 4: OPERATOR: HELL NAME FIELD:	3-037-30595 N1070 WEXPI : BUG #12 320 BUG	DSCR RO COMPANY	1015		0	OIL(BBL) GAS(MCF) HATER(BBL)	REPORT RECEIVED	FOR THE CURRENT	1,433 2,406 16,824 PERIOD * * *
36 S	26 E	21	NENH S 4: OPERATOR: HELL NAME FIELD:	3-037-30595 N1070 WEXP : BUG #12 320 BUG	ISMY RO COMPANY	1015		o	OIL(BBL) GAS(MCF) HATER(BBL) * * * NO	REPORT RECEIVED	FOR THE CURRENT	9,697 9,697 45 PERIOD * * *
36 S	26 E	22	NENM S 4: OPERATOR: WELL NAME FIELD:	3-037-30591 N1070 HEXP : BUG #10 320 BUG	DSCR RO COMPANY	1010		31	OIL(BBL) GAS(MCF) WATER(BBL)	276 0 204	2,417 0 913	47,336 48,901 12,069
37 S	2 E	6	NMSH S 4. OPERATOR: HELL NAME FIELD:	3-017-30015 NO265 CITA : UV #12 155 UPPER	KBAB TION OIL & VALLEY	9150 GAS CORP		31	OIL(BBL) GAS(MCF) MATER(BBL)	483 0 17,491	4,395 0 163,219	302,023 0 7,218,052
37 \$	2 E	. 7	NHSE S 4 OPERATOR: HELL NAME FIELD:	3-017-30039 N0265 CITA : UV #27 155 UPPER	KBAB TION OIL & VALLEY	9150 GAS CORP		31	OIL(BBL) GAS(MCF) HATER(BBL)	310 6,476	3,099 0 60,493	156,942 2,139,462
37 5	5 2 E	7	SHSH S 4 OPERATOR: HELL NAME FIELD:	3-017-30021 N0265 CITA : UY #21 155 UPPER	KBAB TION OIL &	9150 GAS CORP		31	OIL(BBL) GAS(MCF) HATER(BBL)	310 0 6,378	3,107 0 71,887	164,253 0 2,244,287
37 :	5 2 E	. 18	SENM S 4 OPERATOR: HELL NAME FIELD:	3-017-30067 NO265 CITA : LITTLE VA 155 UPPER	KBAB TION OIL & LLEY FEDER VALLEY	9151 GAS CORP RAL #1		31	OIL(BBL) GAS(MCF) HATER(BBL)	2,257 0 17,248	15,776 0 141,546	398,560 0 2,999,083
37 :	5 23 E	14	NESE S OPERATOR: HELL NAME FIELD:	3-037-31364 N7230 MERI CHEROKEE 2 UNDES	ISMY DIAN OIL I FEDERAL #4 IGNATED	10808 NC 3-14		31	OIL(BBL) GAS(MCF) HATER(BBL)	1,962 21,525 0	15,422 83,473 0	16,664 84,033 0
37 :	S 23 E	. 14	NHNH S OPERATOR: HELL NAME FIELD:	3-037-31290 N7230 HERI : CHEROKEE 280 ALKAL	ISMY DIAN OIL 1 FEDERAL #1 I CANYON	10694 INC 11-14		30	OIL(BBL) GAS(MCF) HATER(BBL)	7,622 0	4,137 50,788 113	4,302 54,993 113
37 :	S 23 E	14	NHSE S 4 OPERATOR: HELL NAME FIELD:	3-037-31316 N7230 MERI CHEROKEE 2 UNDES	ISMY DIAN OIL 1 FEDERAL 33 IGNATED	10757 INC 3-14		31	OIL(BBL) GAS(MCF) HATER(BBL)	2,630 7,405 0	19,517 37,954 0	35,379 67,868 66
37	S 23 E	14	SENM S 4 OPERATOR: HELL NAME FIELD:	3-037-31367 N7230 MERI CHEROKEE 2 UNDES	ISMY DIAN OIL FEDERAL #2 IGNATED	10819 INC 22-14		30	OIL(BBL) GAS(MCF) MATER(BBL)	62,314 0	3,793 169,308 459	3,793 169,308 459
37	S 23 E	23	NHSE S 4 OPERATOR: HELL NAME FIELD:	3-037-30811 : N2840 H000 :: H00DS COX 345 DEAD	ISMY S PETROLEI 33-23 MAN CANYO	2730 JM CORP.		0	OIL(BBL) GAS(MCF) HATER(BBL)	0	000	0
37	S 23 1	34	SHNE S 4 OPERATOR: WELL NAME FIELD:	3-037-30825 1	ISMY ERSHALL OF 134-32 IED 34-37S	IL & GAS CO 23E	ORP	0	OIL(BBL) GAS(MCF) HATER(BBL)	0	0	9,921
37	S 24 1	E 20	O NHSE S 4 OPERATOR: HELL NAME FIELD:	13-037-31293 1	ISMY ITANA PETRI ANYON FED MAN CANYO	10696 DLEUM CORP . #1-20 N-ISMY		0	OIL(BBL) GAS(MCF) MATER(BBL)	0	4,810 42,856 8	5,075 42,856 8
37	\$ 24	E 20	D SENM S OPERATOR: HELL NAME FIELD:	13-037-31304 1	ITANA PETRI ANYON FEDI AT	99997 DLEUM CORP ERAL #3-20		0	OIL(BBL) GAS(MCF) HATER(BBL) * * * NO	REPORT RECEIVED	FOR THE CURRENT	0 0 0 0 0 0
37	S 24 I	E 20	D SESE S OPERATOR: HELL HAME FIELD:	13-037-31303 1	ISMY ITANA PETRI CANYON FEDI MAN CANYO	10695 DLEUM CORP ERAL #2-20 N-ISMY		29	OIL(BBL) GAS(MCF) MATER(BBL)	9,570 34,631 81	38,465 110,129 182	39,258 110,129 182
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DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL GAS AND MINING
SUMMARY PRODUCTION REPORT BY FIELD PAGE 5 ATE 10/04/88 TOTAL CUM CUMULATIVE ABANDONED MONTHLY YEAR-TO-DATE :IELD ACTIVE WELLS 4,302 54,993 113 4,302 54,993 OIL(BBL) GAS(MCF) HATER(BBL) 50,788 113 280 : ALKALI CANYON 7,622 1 612,026 424,388 715,246 56 2,805 OIL(BBL) GAS(MCF) MATER(BBL) 185 : ANIDO CREEK 176,254 27,505,256 79,856 27,512,233 79,925 OIL(BBL) GAS(MCF) HATER(BBL) 1,403 382,632 5,858 6,977 45,256 45,256 290 : BIG INDIAN (HERMOSA) 1,308,527 2,777,982 139,171 1,163,352 2,294,842 87,426 145,175 483,140 51,745 OIL(BBL) GAS(MCF) WATER(BBL) 6,859 22,480 1,541 3,375 14 295 : BLUFF 5,137,124 11,617,202 17,687,882 OIL(BBL) GAS(MCF) HATER(BBL) 3,292 5,017,722 11,617,202 17,628,956 119,402 25 305 : BOUNDARY BUTTE 58.926 28,534 250,909 7,490 OIL(BBL) GAS(MCF) HATER(BBL) 27,892 1,005 28,534 250,909 7,490 310 : BRADFORD CYN 4,215 112,220 59,563 143,621 OIL(BBL) GAS(MCF) MATER(BBL) 1,693 93 2,549 112,220 59,563 143,621 315 : BROKEN HILLS 1,292,030 2,661,723 2,450,134 1,412,829 OIL(BBL) GAS(MCF) WATER(BBL) 5,506 16,449 35,454 45,045 139,362 211,525 120,799 320 : BUG 13 211,254 412,267 985,004 1,150,108 357 27,949 73,029 OIL(BBL) GAS(MCF) HATER(BBL) 985,004 1,150,108 357 323 : CAVE CANYON 2,737,772 87,575 2,737,772 87,575 OIL(BBL) GAS(MCF) HATER(BBL) 325 : CHINLE HASH 771,720 1,156.768 131.530 327 : CLAY HILL 10,999 163,256 1,579 8,306 OIL(BBL) GAS(MCF) HATER(BBL) 2,138 1,190 24 340 : COMBOY 362 310 OIL(BBL)
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Division Director

# State of Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 801-538-5340

November 14, 1988

Celsius Energy Company P.O. Box 458 Rock Springs, Wyoming 82902

Attention: Ms. Cathy J. Flansburg

#### Gentlemen:

Re: Approval for Disposal of Produced Water into the Bug No. 12 Well, San Juan County, Utah

In accordance with your request, approval is granted to dispose of produced water from wells in the Cutthroat Unit in Colorado into the Bug No. 12 Well located in Section 21, Township 36 South, Range 26 East, San Juan County, Utah. This approval is issued with the understanding and in consideration of Celsius' plans for operating a disposal well in the Cutthroat Unit in the near future.

This approval is granted for a period of six months. The monthly injection reports for the Bug No. 12 Well should indicate a separate total for the volume of produced water transported from the Cutthroat Unit.

If you have questions concerning this matter, please call.

Sincerely,

Sil XIII

G11 Hunt

Environmental/Geological Supervisor

bd

cc: Dianne R. Nielson, Director

BLM, Durango, Co. BLM, Moab, Utah

Colorado Oil & Gas Con. Comm.

UI1/10



# CELSIUS ENERGY COMPANY

8 458 • ROCK SPRINGS, WYOMING 82902

PHONE (307) 382-9791

April 26, 1989

Bureau of Land Management Division of Mineral Resources Federal Building 701 Camino Del Rio Durango, Colorado 81301

Utah Oil, Gas and Mining 355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203

43-037-30595

Gentlemen:

Celsius Energy Company requests approval to dispose of Desert Creek formation water from Cutthroat Unit Wells No. 1, 3, 4 and 5. Cutthroat No. 1 is located in the SW SE of Section 10, Township 37 North, Range 19 West, Montezuma County, Colorado, Lease No. C-11647. Cutthroat No. 3 is located in the SE SW of Section 23, Township 37 North, Range 19 West, Montezuma County, Colorado, Lease No. C-10364-A. Cutthroat No. 4 is located in the SE NW of Section 10, Township 37 North, Range 19 West, Montezuma County, Colorado, Fee Lease. Cutthroat No. 5 is located in the SW NE of Section 26, Township 37 North, Range 19 West, Montezuma County, Colorado, Lease No. C-37438.

Currently Cutthroat No. 1 and 4 are averaging 130 barrels of produced water per well per day and Cutthroat No. 3 and 5 are averaging 25 barrels of produced water per well per day. The average amount of produced water per day to be disposed of is 300 barrels.

Wexpro Company proposes to dispose of this produced water at its Bug Well No. 12 located in the NE NW of Section 21, Township 36 South, Range 26 East, San Juan County, Utah, Fee Lease. The amounts to be disposed will be reported on the Monthly Injection Report.

The haul route will be on unit, field, State and County roads over which Wexpro and Celsius Energy Company have applicable rights-of-way.

Previous approval was granted for a period of six months contingent upon Celsius obtaining approval for a disposal well in the Cutthroat Unit. Please be advised that Celsius still intends to develop a disposal well, however, we are waiting on partner and State approval. We intend to convert an existing well in the Cutthroat Unit and once we have partner approval, we will submit an application to the State of Colorado and the Bureau of Land Management.

If you have any questions, please contact me.

Singerely.

Cathy J. Flansburg

Coordinator, Regulatory Affairs

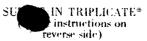
CJF/srl

* APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING DATE:

* Approval extended for another

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# DEPARTMENT OF NATURAL RESOURCES



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43-037-30595	VP 6592 80	GR 6577'	San Juan Utah
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Unit Well No. !	5 located in 4-38s-2	25E SLB&M on Lease No	D. U-11668,
depending on wh	hich facility can ac	commodate the volume	e to be disposed.
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	,		ED BY THE STATE
		OF UTA	H DIVISION OF S, AND MINING
18. I hereby certify that the foregoing is	true and correct	BY:	STITE
SIGNED (7././JULIO	TITLE	District Manager	DATE May 31, 1989
(This space for Federal or State office			
APPROVED BY	TITLE		D.A. CHATT
CONTRACT MR OF APPROVAL IN AN		· · · · · · · · · · · · · · · · · · ·	DATE

Federal Approval of this Action is Necessary

*See Instructions on Reverse Side

W



# WEXPRO COMPANY

P. O. BOX 458 • ROCK SPRINGS, WYOMING 82902 • PHONE (307) 382-9791

June 30, 1989

Utah Oil, Gas and Mining 355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203

Re: Cedar Well No. 1 34-37S-25E San Juan County, Utah

Lease U-44822



DIVISION OF OIL, GAS & MINING

#### Gentlemen;

As stated in our May 31, 1989 sundry notices to haul water from Cedar Well No. 1 to Bug Well No. 12 and Patterson Unit Well No. 5, I am enclosing a water analysis of the Cedar wells produced water.

If you need further information, please let me know.

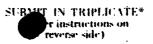
Sincerely,

C. J. Flansburg

Coordinator, Regulatory Affairs

CJF/srl

# DEPARTMENT OF NATURAL RESOURCES



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Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data  NOTICE OF INTERPRED TO:  TEST WATER SEUT-OFF PRACTURE TREAT  TREAT WATER SEUT-OFF PRACTURE TREAT  ARABONS' REPAIR WELL  (Other)  Dispose Produced Water  CHANGE PLANS  (Other)  CHANGE PLANS  (Other)  NOTE: Report results of multiple completion on Well  (Other)  NOTE: Report results of multiple completion on Well  (Other)  NOTE: Report results of multiple completion on Well  (Other)  NOTE: Report results of multiple completion on Well  (Other)  NOTE: Report results of multiple completion on Well  (Other)  NOTE: Report results of multiple completion on Well  (Other)  NOTE: Report results of multiple completion on Well  (Other)  NOTE: Report results of multiple completion on Well  (Other)  NOTE: Report results of multiple completion on Well  (Other)  NOTE: Report results of multiple completion on Well  (Other)  NOTE: REPORT TO HAVE PLANS  (Other)  NOTE: REPORT TO HAVE PLANS  (Other)  NOTE: Report results of multiple completion on Well  (Other)  NOTE: Report results of multiple completion on Well  (Other)  NOTE: Report results of multiple completion on Well  (Other)  NOTE: Report results of multiple completion on Well  ALTERING CARION  ALTERING TOPE  REAT WATER SEUCH OF SECURITY OF ACCURATION  ALTERING TOPE  REAT WATER SEUCH OF SECURITY OF SECURITY OF ACCURATY  REACTURE TREATMER  REACTURE TREATMER  ALTERISC CARION  ALTERISC CHANGE  ALTERISC	43-037-30595 KB 6592.80' GR 6577'	San Juan Utah
NOTICE OF INCHINITY TO:  NOTICE OF INCHINITY TO:  NOTICE OF INCHINITY TO:  TEST WATER SEUT-OFF FRACTURE TREAT ASAROSH* PRACTURE TREAT ASAROSH* CHAMSE FLANS  NOTICE CALIFIE ASAROSH*  REPAIRING CASING ASAROSH SEPARATE  (Other)  Dispose Produced Water  T. Office The Dispose Produced Water  T. Office The Dispose Produced Water  T. Office The Dispose Produced Water  Permission is requested to haul by tank truck produced water from Cedar Well No. 1 located in the NE SE 34-37S-25E, SLBEM on Lease No. U-44822.  The anticipated daily water production will be 60 barrels. The haul route will be over Unit, lease and county roads for which Wexpro has authorization for use. As this well has a very short life expectancy, it is not expected that it will be necessary to dispose of water for more than six months. A water analysis will be obtained but water quality is not expected to be greatly different than water produced form the Patterson Unit. Produced water will be hauled to Bug Well No. 12 located in the NE NW 21-36S-26E, SLBEM on Lease No. U-1668, depending on which facility can accommodate the volume to be disposed.  APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING DATE:  SIGNED DATE May 31, 1989		
TEST WATER SEUT-OFF PULL OR ALTER CASING WATER SKUT-OFF RECTURE TREAT SHOOT OR ALTERIAGE WELL GOTHER CHANGE PLANS (Other) Dispose Produced Water (Other) Water Skut-Off Respect results of multiple completion on Well (Other) Dispose Produced Water (Other) Water Skut-Off Respect results of multiple completion on Well (Other) Dispose Produced Water (Other) Water Skut-Off Respect results of multiple completion on Well (Other) Dispose Produced Water (Other) Water Skut-Off Respect results of multiple completion on Well (Other) Water Skut-Off Respect results of multiple completion on Well (Other) Water Skut-Off Respect Resolution on Well Respect Resolution Water Resolution Water Resolution on Well Resolution Skut-Off Respect Resolution Skut-Off Respect Resolution Skut-Off Respect Resolution Skut-Off Respect Resolution on Well Resolution Skut-Off Respect Resolution Skut-Off Respect Resolution Skut-Off Respect Resolution Skut-Off Respect Resolution on Well Resolution Skut-Off Respect Resolution Skut-Off Respect Resolution Skut-Off Respect Resolution on Well Resolution Skut-Off Respect Resolution Skut-Off Re	6. Check Appropriate Box To Indicate Nature of Notice, Rep	ort, or Other Data
PERCTURE TREAT SMOOT OR ACIDALE  ABARDON*  ABARDONMERT*  ABARDON*  ABARDONMERT*  ABARDON*  ABARDONMERT*  ABARDONMERT*  ABARDONMERT*  (Other)  (Cother)  (Cot		_
PERCTURE TREAT SMOOT OR ACIDALE  ABARDON*  ABARDONMERT*  ABARDON*  ABARDONMERT*  ABARDON*  ABARDONMERT*  ABARDONMERT*  ABARDONMERT*  (Other)  (Cother)  (Cot	TIST WATER SKUT-OFF PULL OR ALTER CASING WATER SWUT-OFF	
Dispose Produced Water  Other)  Dispose Produced Water  Other)  Dispose Produced Water  Other of Counters of Counters of Department of the Counter of Counters of		
(Other) Dispose Produced Water X (Competion on Recompletion cap florm)  7. DISCRIBE TRUNCASED OR CONFLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, lackeding estimated date of starting any probased work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*  Permission is requested to haul by tank truck produced water from Cedar Well No. 1 located in the NE SE 34-375-25E, SLBEM on Lease No. U-44822. The anticipated daily water production will be 60 barrels. The haul route will be over Unit, lease and county roads for which Wexpro has authorization for use. As this well has a very short life expectancy, it is not expected that it will be necessary to dispose of water for more than six months. A water analysis will be obtained but water quality is not expected to be greatly different than water produced form the Patterson Unit. Produced water will be hauled to Bug Well No. 12 located in the NE NE 21-36S-26E, SLBEM on a Fee Lease or to Patterson Unit Well No. 5 located in 4-38S-25E SLBEM on lease No. U-11668, depending on which facility can accommodate the volume to be disposed.  APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING DATE:  OF UTAH DIVISION OF OIL, GAS, AND MINING DATE:  SIGNED AND MAY 31, 1989	SHOOT OR ACIDIZE ABANDON* SHOUTING OR ACID	
DESCRIBE PROJECTOR MATER DEPENDENCE OF AMERICA OF A CONTRICTOR	REPAIR WELL CHANGE PLANS (Other)	
Permission is requested to haul by tank truck produced water from Cedar Well No. 1 located in the NE SE 34-37S-25E, SLB&M on Lease No. U-44822. The anticipated daily water production will be 60 barrels. The haul route will be over Unit, lease and county roads for which Wexpro has authorization for use. As this well has a very short life expectancy, it is not expected that it will be necessary to dispose of water for more than six months. A water analysis will be obtained but water quality is not expected to be greatly different than water produced form the Patterson Unit. Produced water will be hauled to Bug Well No. 12 located in the NE NW 21-36S-26E, SLB&M on Lease No. U-11668, depending on which facility can accommodate the volume to be disposed.  Your expeditious approval would be greatly appreciated as storage for this water is limited.  APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING DATE.  BY:  DATE May 31, 1989	(Other) Dispose Produced Water X (Note: Rep	ort results of multiple completion on Well or Recompletion Report and Log form.)
APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING DATE: BY:  SIGNED TITLE District Manager  DATE May 31, 1989	Well No. 1 located in the NE SE 34-37S-25E, SLB&M The anticipated daily water production will be 60 route will be over Unit, lease and county roads for authorization for use. As this well has a very shit is not expected that it will be necessary to dimore than six months. A water analysis will be obtained in the necessary to different the Patterson Unit. Produced water will be hauled located in the NE NW 21-36S-26E, SLB&M on a Fee Le Unit Well No. 5 located in 4-38S-25E SLB&M on Leas depending on which facility can accommodate the vo	barrels. The haul or which Wexpro has nort life expectancy, ispose of water for otained but water nan water produced form it to Bug Well No. 12 ease or to Patterson se No. U-11668, olume to be disposed.
OF UTAH DIVISION OF OIL, GAS, AND MINING DATE:  BY:  SIGNED TITLE District Manager DATE May 31, 1989	this water is limited.	
8. I hereby certify that the foregoing is true and correct  SIGNED 7. AULIO TITLE District Manager DATE May 31, 1989		OF UTAH DIVISION OF DIL, GAS, AND MINING
	18. I hereby certify, that the foregoing is true and correct	Y: 21707
	SIGNED 2// JULIO TITLE District Manager	DATE MAY 31 1989
I THIS Share for a crater of distre amee and		DAAG MAJ JAS ACC
	(THIS SPACE IOL Lefternt OL STATE Office fine)	



### **CELSIUS ENERGY COMPANY**

1125 SEVENTEENTH STREET #2240 · DENVER, COLORADO 80202 · PHONE (303) 296-8945

July 24, 1991

UTAH OIL, GAS & MINING 355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180

RE: NTL-2B Requirements for:

CANYON WELL NO. 1 ISLAND BUTTE II I SE/4NE/4, Sec. 23 Papoose Canyon T. 38 N., R. 20 W., SW/4NW/4, Sec. 7

Lease No. C-36811

ISLAND BUTTE II NO. 2 Papoose Canyon SW/4NW/4, Sec. 7 T. 38 N., R. 19 W., Lease No. C-26504 ISLAND BUTTE II NO. 3 Papoose Canyon SE/4SW/4, Sec. 7 T. 38 N., R. 19 W., Lease No. C-26504

21- T365-R26E Wexpro Bug #12 43-037-30595

Gentlemen:

Celsius Energy Company requests permission to dispose of the produced water from the above referenced wells into our Bug No. 12 disposal well which is located in the NE/4 NW/4 of Section 21, Township 36 South, Range 26 East, San Juan County, Utah.

Production from the wells flow into the Island Butte II Unit well No. 2's location where fluids and gas are measured separately and, then, commingled for sale and/or disposal.

The water that is produced from the wells will be trucked to Bug No. 12's location for disposal. The Bug No. 12 disposal well is an approved disposal well (See attachment). The total amount of water to be disposed of initially is approximately 100 barrels from the three above-referenced wells. Volumes will be reported as required by Notice to Lessee's No. NTL-2B.

If you need any additional information, please do not hesitate to contact me at (303) 296-8945.

Sincerely,

DOUGLAS S. SMITH

Foreman

JUL 2 6 1991

DIVISION OF OIL GAS & MINING

DSS/lc Enclosure



## Statoof Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

File 265 35 81

**Executive Director** Dianne R. Nielson, Ph.D. Division Director

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 801-538-5340

August 21, 1991

Douglas S. Smith Celsius Energy Company 1125 Seventeenth Street #2240 Denver, Colorado 80202

Dear Mr. Smith:

Disposal of Produced Water from Island Butte and Cutthroat Unit Wells into Bug No. Re: 12 Disposal Well

This letter is in response to your request to dispose of water from the Canyon Well No. 1, Island Butte II No. 2, and Island Butte II No. 3 wells, into the Bug No. 12 disposal well. This action is approved with the following conditions.

- This will be a temporary arrangement. This approval is valid for one year, 1) through August 20, 1992, unless revoked by the Division for just cause. In order to extend this approval beyond the one year period Celsius must reapply and substantiate the need to transport produced water into the State.
- Since this water will be produced in Colorado the volumes injected into the Bug 2) No. 12 well from these units must be reported to the Division separately on monthly water injection reports.

If you have any question concerning this approval, please call.

Sincerely,

Gil Hunt

**UIC Program Manager** 

Wil Klunt

ldc

cc: BLM - Durango BLM - Moab COGCC



## **CELSIUS ENERGY COMPANY**

1125 SEVENTEENTH STREET #2240 • DENVER, COLORADO 80202 • PHONE (303) 296-8945 • FAX (303) 294-9632

**September 11, 1992** 

State of Utah
Department of Natural Resources
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-5340

SEP 1 A 1992

DIVISION OF OIL GAS & MINING

Attention:

Gil Hunt

**UIC Program Manager** 

Dear Mr. Hunt:

Sec 21 T365 R26E 43-037-30595

Re: Disposal of Produced Water into Bug No. 12 Disposal Well

Canyon Well No. 1 SE¼NE¼ Section 23

T38N, R20W Lease No. C-36811 Island Butte II No. 2 SW¼NW¼ Section 7 T38N, R19W

Lease No. C-26504

Island Butte II No. 3 SE%SW% Section 7

T38N, R19W

Lease No. C-26504

Celsius Energy Company's temporary authorization to dispose of water from the three captioned wells into the Bug No. 12 disposal well expired on August 20, 1992. Celsius would like to apply for an extension of this approval.

Celsius is currently awaiting approval of our Spargo No. 2 well as a disposal well. Spargo No. 2 is located in the SENW of Section 1, Township 38 North, Range 20 West, Dolores County, Colorado. We are also waiting on approval of our Spargo water line which will run from the captioned wells to the Spargo disposal well. Once we have these approvals and the Spargo water line has been built, water from the three captioned wells will no longer be trucked into Utah for disposal into the Bug No. 12 well. We anticipate this occuring in early 1993.

FAPPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 1-18-72
BY: 2-18-72

* Extended to 8-20-93

Utah Department of Natural Resources September 11, 1992 Page 2

Attached is a report of the water which has been injected into the Bug No. 12 disposal well from the three captioned wells for the period September 1991 through August 1992. Volumes will be reported monthly during the term of the extended approval.

If you have any questions, or need any further information, please call.

Sincerely,

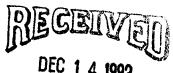
Jane Cruz Cruz Regulatory Affairs

Enclosure

### BUG NO. 12 WATER DISPOSAL WELL NWNE Section 21, Township 36 South, Range 26 East San Juan County, Utah

MONTH	ISLAND BUTTE #2	ISLAND BUTTE #3	CANYON #1
Sep 91		1,022	766
Oct 91		601	
Nov 91		1,542	
Dec 91		1,041	
Jan 92		1,642	
Feb 92	737	2,775	301
Mar 92	1,529	1,725	
Apr 92	4,015	4,526	
May 92	4,999	4,090	
Jun 92	6,411	6,672	
Jul 92	8,619	8,038	
Aug 92	7,753	6,092	357
TOTAL	34,063	39,766	1,424





# WEXPRO COMPANY

79 SOUTH STATE/STREET • P. O. BOX 11070 • SALT LAKE CITY, UTAH 84147 • PHONE (801) 530-2600 OIL GAS & MINING

December 11, 1992

Department of Natural Resources Oil, Gas, and Mining 3 Triad Center, Suite 350 Salt Lake City, UT 84180-1203

ATTN: Dan Jarvis

Dear Mr. Jarvis:

RE: Mechanical Integrity Tests

Bug Well #12

Patterson Unit Well #5

On November 18, 1992, you witnessed the mechanical integrity tests at Wexpro Company's Bug Well #12 and Patterson Unit Well #5; both located in San Juan County.

It is my understanding both of these wells passed the integrity tests and may continue to receive produced water for disposal. Wexpro Company would like written confirmation from your offices as to these assumptions. Please forward your authorization for continued injection operations to:

> Wexpro Company P. O. Box 11070 Salt Lake City, UT 84147

ATTN: Jeffrey L. Ingerson

Should you have any questions concerning this request, please contact me at (801) 530-2653.

Sincerely,

Jeffrey L. Ingerson

Staff Petroleum Engineer

were L lucreson

JLI/jlz

#### Utah Division of Oil, Gas, and Mining Casing - Bradenhoad Test

Pressure

Operator:

WEXPRO COMPANY

Field/Unit: BUG

Well:

BUG #12

Township: 36S

Sect:21

API:

43-037-30595

Welltype: INJD

Max Pressure: 2050

Lease type: FEE

Surface Owner:

Test Date: ///18/9 Z

9:45 AM

CASING STRING

SIZE SET AT **PRESSURE** 

**OBSERVATIONS** 

Range: 26E

FEE

Surface:

9 5/8

Intermediate:

0

2040

Production:

5 1/2

6369

Other:

0

Tubing:

2 7/8

Packer:

6150

Recommendations: Comments + observations

well was SI at time of test no easing garage - Prior to test Pressured casing to 875 PSI held for 15 min with no pressure loss Passed MIT D. faming

In Attendance

DAN JACKSON - EPA

Bradhill

P. JARVIJ

Olenn Galwin Circle K Hot Oil Service



355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 801-538-5340

December 30, 1992

Jeffery Ingerson Wexpro Company 79 South State Street P.O. Box 11070 Salt Lake City, Utah 84147

Dear Jeffery:

Dee C. Hansen

Executive Director

Division Director

Dianne R. Nielson, Ph.D.

Re: <u>Authorization for Continued Injection</u>

On November 18, 1992, Wexpro Company's Bug #12 and Patterson #5 injection wells were pressure tested. The casing/tubing annulus in both wells were pressured to approximately 1000 psig. Pressure was held for 15 minutes with no loss, passing the required mechanical integrity test.

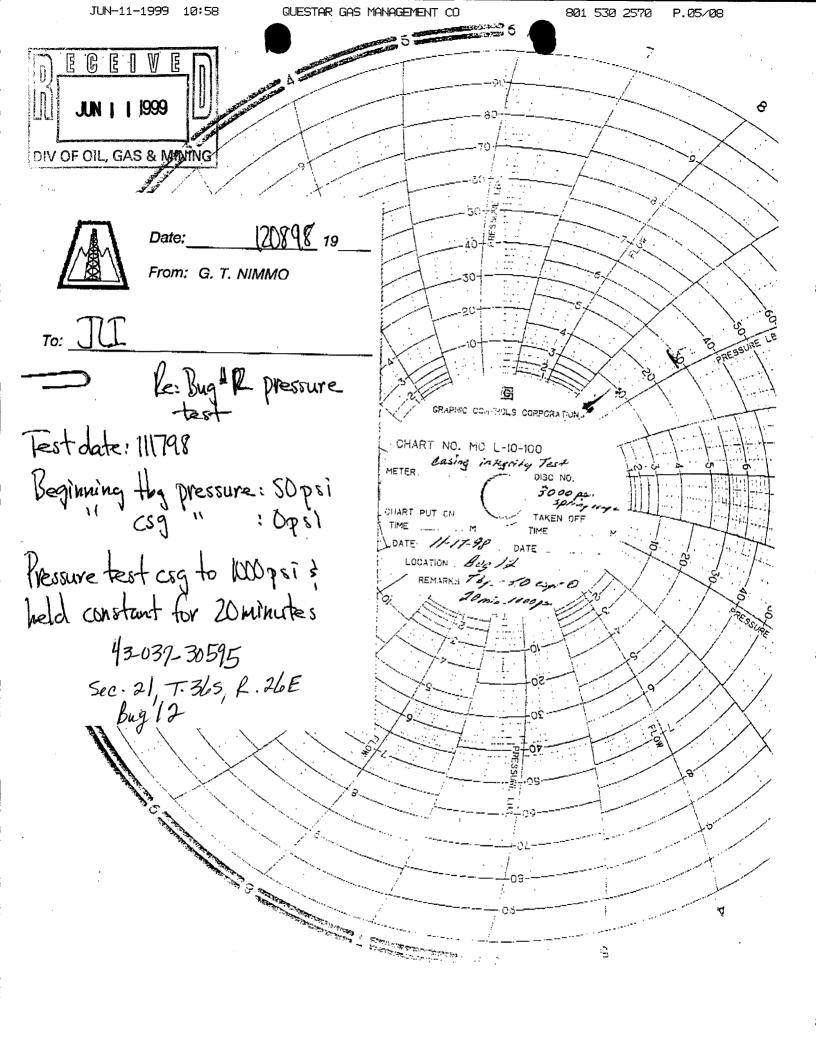
Wexpro is hereby authorized to continue injection into both wells. If you have any questions please contact me at (801)538-5340.

Sincerely,

Daniel J. Järvis

**UIC** Geologist

ldc WUI37





Jeffrey L. Ingerson Senior Environmental Specialist (801) 324-2653 pro Company
160 East 100 South
P.O. Box 45601
Salt Lake City, UT 84145-0601
Tel 801 324 2600
Fax 801 324 2637

August 19, 1999

Dan Jarvis
Utah Division of Oil Gas and Mining
1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801

Dear Mr. Jarvis:

43-037-30595

Re: MIT Results for Bug Well 12 and Patterson Unit 5 San Juan County, Utah Sec. 21, 365, 26E

Wexpro Company (Wexpro) is in receipt of your letter of August 13, 1999 concerning integrity testing of the casing at two (2) of our water injection wells located in San Juan County, Utah. The wells are Bug Well 12 and Patterson Unit 5.

Please be advised that Wexpro Company tested these wells in November 1998 (both wells) and again in June 1999 (Patterson Unit 5). Copies of these tests were forwarded to Lisha Cordova of you office earlier this year. Telephone conversations with Jim Thompson of your office indicate your files do not contain this information. I have enclosed copies of my correspondence with her for your reference and files.

Both wells have passed the mechanical integrity test and are being used by Wexpro to dispose of produced fluids. Wexpro believes these tests meet the criteria set forth by the Division and that we should not have to test again for five (5) years; barring obvious problems.

Wexpro requests the Division review our test data and confirm our interpretation of the test regulations,

Should you have any questions concerning this information and request, please feel free to contact me at the letterhead address or at (801) 324-2653 (phone) or (801) 324-2570 (fax).

Sincerely,

Jeffrey L. Ingerson for Wexpro Company

cc: Environmental Files - Utah UIC

AUG 23 1999

DIV. OF OIL, GAS & MINING





Wexpro Company

To:

Lisha Cordova @ OGM

From:

Jeffrey L. Ingerson

Subject: Bug 12/Patterson 5: 1998 Injection Volumes

Date:

June 11, 1999

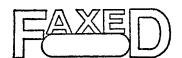
Attached are reports for Bug 12 and Patterson 5. Sorry for the delay. I will put originals in mail today.

Call me at 324-2653 if you have questions.

Thanks ... jli

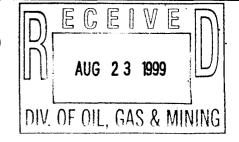
FAX to 359-3940

(3) pages including this cover.

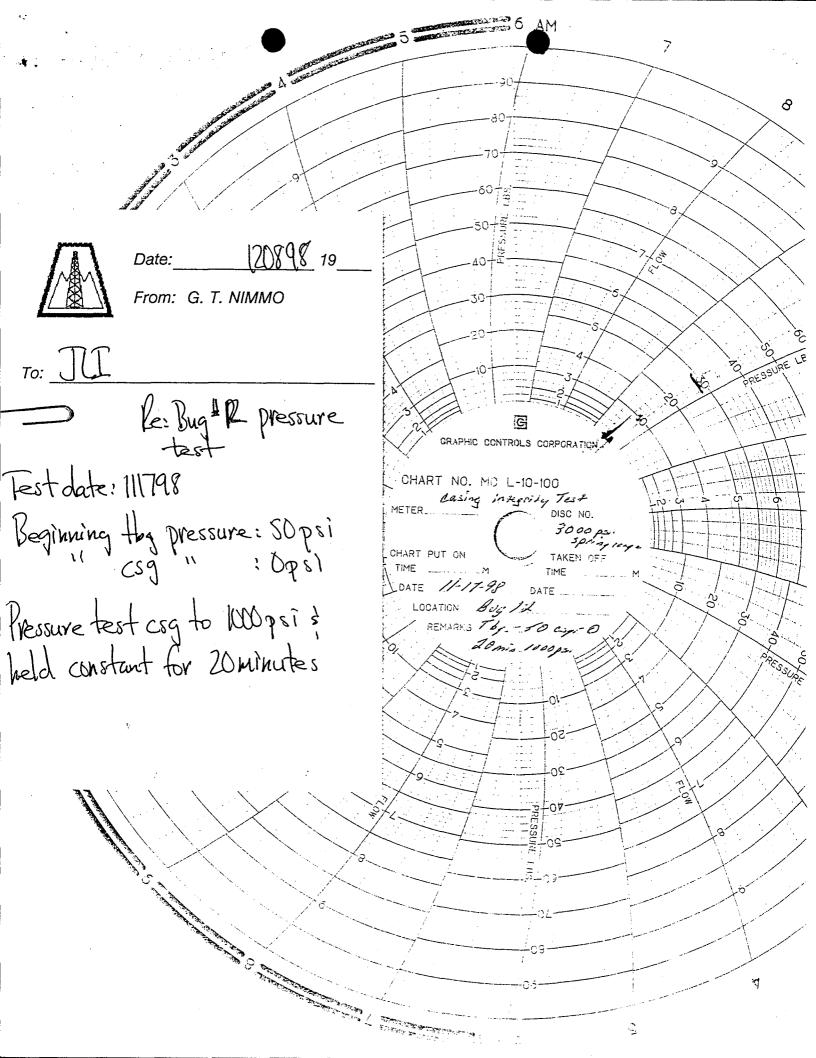


STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

### ANNUAL FLUID INJECTION REPORT - UIC FORM 4



OPER. ADDR	ATOR Wexpro Company ESS PO Box 45601 Salt Lake City, Utah 84145-0601	OPERATIONS PERIOD: JANUARY 1 - DECEMBER 31, 19_98					
		CORRECTED REPORT []					
PUR	POSE OF FLUID INJECTION	•					
	Enhanced recovery [] LPG storage mplete applicable sections below)	⊠ Disposal					
ENH	ANCED RECOVERY OR LPG STORAGE PROJECT						
2.	Field or Unit name:  Formation and depth:  County(ies):  Nature of injected fluid: [] Gas [] F  [] LPG [] S	resh water					
8. 9.	Number of active injection wells:  Number of shut-in injection wells:  Average well head injection pressure (psig)  If all or part of injected fluid is fresh w	MCF):  : ater, accurately describe source:					
10.	10. Briefly describe any major project changes and/or well testing programs performed during the year. Attach additional pages if necessary.						
	,						
DIS	POSAL WELL						
2.	Well name and number: Bug Well 12 - Well location: QQ nw section 21 township Formation and depth: Desert Creek @ 6162' Average daily disposal volume (Barrels): 7 Average daily wellhead pressure (psig): 57 Briefly describe any major repair performed Attach additional pages if necessary.	36S range 26E county San Juan to 6318' KBM 70 bwpd 75 psig					
	None.						
I ce	ertify that this report is true and complete	to the best of my knowledge.					
Name Tit	e <u>Jeffrey L. Ingerson</u> Signatur le <u>Senior Environmental Specialis</u> t Date	6.11.99 L house					





DEPARTMENT OF NATURAL RESOURCES AUG 1 6 RECO

Michael O. Leavitt Governor Kathleen Clarks Exocutive Director

1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114-5901 801-538-5340 Lowell P. Braxton 801-359-3940 (Fax)
Division Director 801-538-7223 (TDD) 801-359-3940 (Fax)

August 13, 1999

Wexpro P.O. Box 458 Rock Springs, Wyoming 82902

Pressure Test for Mechanical Integrity, Patterson #5 and Re: Bug 12 Injection Wells, San Juan County, Utah

#### Gentlemen:

The Underground Injection Control Program which the Division of Oil, Gas and Mining (DOGM) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. Rule R649-5-5.3 of the Oil and Gas Conservation General Rules requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is lesser, provided that no test pressure is less than 300 psi. This test shall be performed at least every five year period beginning October, 1982. Please make arrangements and ready the wells for testing during the week of September 27,1999 as outlined below:

- 1: "Operator must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), as well as personnel to assist in opening valves etc.
  - The casing-tubing annulus shall be filled prior to the 2. test date to expedite testing, as each well will be required to hold pressure for a minimum of 15 minutes.
  - If mechanical difficulties or workover operations make it impossible for the wells to be tested on this date the tests may be rescheduled.

Page 2 Wexpro August 13, 1999

- 4. Company personnel should meet DOGM representatives at the field office or other location as negotiated.
- 5. All bradenhead valves with exception of the tubing on the injection wells must be shut-in 24 hours prior to testing.

Please contact Jim Thompson at (801)538-5336 to arrange a meeting time and place or negotiate a different date if this one is unacceptable.

Sincerely,

Dan Jarvis UIC Geologist

lwp

MIT-99

#### **STATE OF UTAH**

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

	DIVISION OF OIL, GAS AND I	VIIIVIING		5. LEASE DESIGNATION AND SERIAL NUMBER: Multiple
SUNDF	RY NOTICES AND REPOR	TS ON WEI	LS.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to dr	ill new wells, significantly deepen existing wells below al laterals. Use APPLICATION FOR PERMIT TO DRII	current bottom-hole de	pth, reenter plugged wells, or to als.	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WEL	8. WELL NAME and NUMBER:     Bug Field (Multiple Wells)			
2. NAME OF OPERATOR:	44.000			9. API NUMBER:
Wexpro Company 3. ADDRESS OF OPERATOR:	N 1070			Multiple
PO Pov 45601	CITY Salt Lake City STATE UT	_{ZIP} 84145	PHONE NUMBER: (801) 324-2611	10. FIELD AND POOL, OR WILDCAT:  Desert Creek / Ismay
4. LOCATION OF WELL	STATE .	ZIP	1 ()	
FOOTAGES AT SURFACE:	X and X			COUNTY:
QTR/QTR, SECTION, TOWNSHIP, F	ANGE, MERIDIAN: 36S	26E		STATE: <b>UTAH</b>
11. CHECK AP	PROPRIATE BOXES TO INDICA	ATE NATURE	OF NOTICE, REP	ORT, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
NOTICE OF INTENT	ACIDIZE	DEEPEN		REPERFORATE CURRENT FORMATION
(Submit in Duplicate)	ALTER CASING	FRACTUR	E TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start:	CASING REPAIR	NEW CON	STRUCTION	TEMPORARILY ABANDON
	CHANGE TO PREVIOUS PLANS	✓ OPERATO	R CHANGE	TUBING REPAIR
	CHANGE TUBING	PLUG AND	ABANDON	VENT OR FLARE
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME	PLUG BAC	К	WATER DISPOSAL
Date of work completion:	CHANGE WELL STATUS	PRODUCT	ION (START/RESUME)	WATER SHUT-OFF
	COMMINGLE PRODUCING FORMATION	IS RECLAMA	TION OF WELL SITE	OTHER:
	. CONVERT WELL TYPE	RECOMPL	ETE - DIFFERENT FORMATION	N
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show a	Ill pertinent details in	ncluding dates, depths, volu	imes, etc.
Per conversation w/ Ear responsibility of the follo	lene Russell. Effective 08/01/200 owing wells.	05, Synergy C	perating, LLC (N27	95) has taken over the operator
Bug # 8 (43-037-3058 Bug # 13 (43-037-3061 Bug # 14 (43-037-3060 Bug # 15 (43-037-3060 Bug # 16 (43-037-3079 Bug # 17 (43-037-3079 Bug # 12 (SWD) - (43-0 Bug "B" Battery Bug "C" Battery Bug Compressor	2) - State of Utah Lease ML-2702 9) - BLM Lease U-43653 0) - BLM Lease U-23161 5) - BLM Lease U-23161 6) - BLM Lease U-23161 7) - BLM Lease U-23161 3) - State of Utah Lease ML-2702 37-30595) - Fee Lease	26 3m (ERI		Operating, LLC's office.
NAME (PLEASE PRINT) Jame	s R. Livsey	ТІТ	LE <u>Vice Pres</u>	sident
SIGNATURE	ne R fr	DA	February	6, 2006
This space for State use only)				RECEIVED

APPROVED 2/28/06 Carlene Russell FEB 1 0 2006

(5/2000)

Division of Oil, Gas and Mining Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

DIV. OF OIL, GAS & MINING

#### **STATE OF UTAH**

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL. GAS AND MINING

	5. LEASE DESIGNATION AND SERIAL NUMBER: Multiple			
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
Do not use this form for proposals to drill	new wells, significantly deepen existing wells below	current bottom-hole de	pth, reenter plugged wells, or to	7. UNIT or CA AGREEMENT NAME:
drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for the second of			als.	8. WELL NAME and NUMBER:
2. NAME OF OPERATOR:	One will only	<u> </u>		Bug Field (Multiple Wells)
Synergy Operating, LLC	N2795	_		Multiple
3. ADDRESS OF OPERATOR: PO Box 5513	TY Farmington STATE NM	_{ZIP} 87499	PHONE NUMBER: (505) 325-5449	10. FIELD AND POOL, OR WILDCAT: Desert Creek / Ismay
4. LOCATION OF WELL	STATE TO STATE	<u> 21P - 1</u>	(400, 620 0	
FOOTAGES AT SURFACE:				COUNTY:
QTR/QTR, SECTION, TOWNSHIP, RA	NGE, MERIDIAN: 36S	26E		STATE: UTAH
11. CHECK APE	PROPRIATE BOXES TO INDIC	ATE NATURE	OF NOTICE, REP	ORT, OR OTHER DATA
TYPE OF SUBMISSION			YPE OF ACTION	
NOTICE OF INTENT	ACIDIZE	DEEPEN		REPERFORATE CURRENT FORMATION
(Submit in Duplicate)	ALTER CASING	FRACTUR		SIDETRACK TO REPAIR WELL
Approximate date work will start:	CASING REPAIR		STRUCTION	TEMPORARILY ABANDON
· · · · · · · · · · · · · · · · · · ·	CHANGE TO PREVIOUS PLANS		R CHANGE	TUBING REPAIR
SUBSEQUENT REPORT	CHANGE TUBING  CHANGE WELL NAME	PLUG AND	ABANDON	VENT OR FLARE
(Submit Original Form Only)	CHANGE WELL STATUS		ION (START/RESUME)	WATER DISPOSAL WATER SHUT-OFF
Date of work completion:	COMMINGLE PRODUCING FORMATION	=	TION OF WELL SITE	= =
	CONVERT WELL TYPE	=	ETE - DIFFERENT FORMATIO	ON OTHER:
12. DESCRIBE PROPOSED OR C	COMPLETED OPERATIONS. Clearly show a	all pertinent details in	ncluding dates, depths, volu	imes, etc
				795) has taken over the operator
responsibility of the follow	ving wells.			,
Bug # 4 (43-037-30542 Bug # 8 (43-037-30589	r) - State of Utah Lease ML-270 0) - BLM Lease U-43653	26	BLM UT	924
Bug # 13 (43-037-30610	) - BLM Lease U-23161			•
Bug # 14 (43-037-30605 Bug # 15 (43-037-30606				
Bug # 16 (43-037-30607				
Bug # 17 (43-037-30793	) - State of Utah Lease ML-270	26		
Bug # 12 (SWD) - (43-03 Bug "B" Battery \	7-30595) - Fee Lease			
Bug "C" Battery	o impact at Dos	m CEPI	11.01)	
Bug Compressor /				
A copy of this document	will also be submitted to the Sta	te of Utah dire	ctly from Wexpro/Q	QEP's office.
NAME (DI EASE DOINT) Thomas	E Mulling		Franks and a No.	
NAME (PLEASE PRINT) I homas	L. Mullins	ТТТ		
SIGNATURE //h	4WE	DA	TE 1-31-	2006
This space for State use only)				RECEIVED
APPROV	ED 2 28 06			
Δ 1	The second secon			FEB 1 0 2006

(5/2000)

Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

DIV. OF OIL, GAS & MINING

(See Instructions on Reverse Side)

#### STATE OF UTAH

**DEPARTMENT OF NATURAL RESOURCES** DIVISION OF OIL, GAS AND MINING

TRANSFER OF AUTHORITY TO INJECT				
Well Name and Number Bug # 12		API Number 4303730595		
Location of Well  Footage: 583' FNL, 1928' FWL	County : San Juan	Field or Unit Name Bug # 12		
QQ. Section, Township, Range: NENW 21 36S 23E	State: LITAH	Lease Designation and Number Fee		

EFFECTIVE DATE OF TRANSFER: 8/1/2005

Company:	Wexpro Company	Name:James RLivsey	
Address:	PO Box 45601	Signature: 1 mark	
	city Salt Lake City state UT zip 84145	Title: <u>Vice President</u>	
Phone:		Date: February 6, 2006	

**NEW OPERATOR** Synergy Operating, LLC Thomas E Mullins Company: Name: PO Box 5513 Address: Signature: city Farmington Principal / Engineering Manager state NM zip 87499 Title: (505) 325-5449 2/2/2006 Phone: Date: Comments:

(This space for State use only)

Transfer approved by:

Comments:

Environ muntal Manager / UC Geologist

an MIT must be conduced

prior to commencing injection. RECEI

**RECEIVED** FEB 1 0 2006

#### **OPERATOR CHANGE WORKSHEET**

ROUTING 1. DJJ

1. DJJ 2. CDW

### X Change of Operator (Well Sold)

The operator of the well(s) listed below has changed, effective:

Designation of Agent/Operator

8/1/2005

Operator Name Change

Merger

N1070-Wexpro Company	FROM: (Old Operator):				TO: ( New Operator):				
Salt Lake City, UT 84145   Phone: 1-(801) 324-2611   Phone: 1-(801)	N1070-Wexpro Company	N2795-Synerg	y Operating,	LLC					
Phone: 1-(801) 324-2611	PO Box 45601				PO Bo	x 5513			
CA No.   Unit:	Salt Lake City, UT 84145				Farmir	ngton, NM 8	37499		
NAME	Phone: 1-(801) 324-2611				Phone: 1-(505)	325-5449			
NAME	CA No.				Unit:				
BUG 8	WELL(S)								
BUG 8	NAME	SEC	TWN	RNG	API NO				
BUG 17		08	360S	260E	4303730589	9910		GW	
BUG 14		16			4303730542	995	State	OW	S
BUG 15		16				995	State	OW	S
BUG 16		17			4303730605	1020	Federal	OW	S
BUG 13 BUG 12 21 360S 260E 4303730510 1020 Federal OW S BUG 12 21 360S 260E 4303730595 1015 Fee WD A  OPERATOR CHANGES DOCUMENTATION  Enter date after each listed item is completed 1. (R649-8-10) Sundry or legal documentation was received from the FORMER operator on: 2/10/2006 2. (R649-8-10) Sundry or legal documentation was received from the NEW operator on: 2/10/2006 3. The new company was checked on the Department of Commerce, Division of Corporations Database on: 4. Is the new operator was contacted contacted on: YES Business Number: 5955920-0161  5. If NO, the operator was contacted contacted on: requested 2/28/06						1020	Federal	OW	S
BUG 12  21 360S 260E 4303730595 1015 Fee WD A  A  OPERATOR CHANGES DOCUMENTATION  Enter date after each listed item is completed  1. (R649-8-10) Sundry or legal documentation was received from the FORMER operator on: 2/10/2006  2. (R649-8-10) Sundry or legal documentation was received from the NEW operator on: 2/10/2006  3. The new company was checked on the Department of Commerce, Division of Corporations Database on: 4. Is the new operator registered in the State of Utah: YES Business Number: 5955920-0161  5. If NO, the operator was contacted contacted on: requested 2/28/06								GW	S
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5. If NO, the operator was contacted contacted on:  6a. (R649-9-2)Waste Management Plan has been received on:  requested 2/28/06			oi Cor			_			2/28/2006
6a. (R649-9-2)Waste Management Plan has been received on: requested 2/28/06	4. Is the new operator registered in the State of Uta	ah:		YES	Business Numl	ber: 5	955920-01	61	
	5. If <b>NO</b> , the operator was contacted contacted on:						- <del></del>		
	6a. (R649-9-2)Waste Management Plan has been rec	eive	d on:			requested 2	2/28/06		
ou. The pound is of the tax state/fee wen sites complete on, II/2	6b. Inspections of LA PA state/fee well sites comple				n/a	-			
6c. Reports current for Production/Disposition & Sundries on:	- · · · · · · · · · · · · · · · · · · ·					-			

7. Fede	ral and Indian Lease Wells: The BLM and or th	e BIA has approv	ved the merger, name change,
or oper	ator change for all wells listed on Federal or Indian lease	es on:	BLM not yet BIA n/a
8. Fede	ral and Indian Units:		
The I	BLM or BIA has approved the successor of unit operator	for wells listed on:	n/a
9. Fede	ral and Indian Communization Agreements	("CA"):	
The I	BLM or BIA has approved the operator for all wells liste	ed within a CA on:	n/a
	• • • • • • • • • • • • • • • • • • • •		ved UIC Form 5, Transfer of Authority to
Inject,	for the enhanced/secondary recovery unit/project for the	water disposal well	(s) listed on: <u>2/15/2006</u>
TO A TEL A TEL	AVOIDAZ		
DATA E.  1. Change	NIKY: es entered in the Oil and Gas Database on:	2/28/2006	
			0/00/0004
2. Change	es have been entered on the Monthly Operator Change	Spread Sheet on:	2/28/2006
3. Bond in	nformation entered in RBDMS on:	2/28/2006	
4. Fee/Sta	ate wells attached to bond in RBDMS on:	2/28/2006	
5. Injection	on Projects to new operator in RBDMS on:	n/a	
6. Receipt	t of Acceptance of Drilling Procedures for APD/New on	:	n/a
FEDERA	L WELL(S) BOND VERIFICATION:		
1. Federal	well(s) covered by Bond Number:	UT0924	
INDIAN	WELL(S) BOND VERIFICATION:	<del></del>	
1. Indian	well(s) covered by Bond Number:	n/a	
	TATE WELL(S) BOND VERIFICATION:		
1. (R649-3	3-1) The NEW operator of any fee well(s) listed covered	d by Bond Number	BOK06SDP01525
	RMER operator has requested a release of liability from	their bond on:	**
The Div	ision sent response by letter on:		**Joint bond with QEP, & QEP Uinta Basin
LEASE I	NTEREST OWNER NOTIFICATION:		
	-10) The <b>FORMER</b> operator of the fee wells has been c responsibility to notify all interest owners of this change		-,
or then	responsionity to notify an interest owners of this change	on:	n/a
COMMEN	TS:		

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL GAS AND MINING

DIVISION	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee				
SUNDRY NOTIC	CES AND REPORT	S ON WEL	LS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
				7. UNIT or CA AGREEMENT NAME:	
1 TYPE OF WELL	Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.  1. TYPE OF WELL  OIL WELL  GAS WELL  OTHER  Salt Water Disposal				
2. NAME OF OPERATOR:		<del></del>		Bug # 12  9. API NUMBER: 4202720505	
Synergy Operating, LLC  3. ADDRESS OF OPERATOR:	N2795		PHONE NUMBER:	4303730595  10. FIELD AND POOL, OR WILDCAT:	
PO Box 5513 CITY Farmingt	on _{STATE} NM _Z	87 <b>4</b> 99	(505) 325-5449	Bug Field (Ismay/Desert Creek)	
4. LOCATION OF WELL FOOTAGES AT SURFACE: Unit C 583' FNI		T36S R26E		COUNTY: San Juan	
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN	N NENW 21 36S	26E		STATE: UTAH	
11. CHECK APPROPRIAT	TE BOXES TO INDICA	TE NATURE	OF NOTICE, REPO	RT, OR OTHER DATA	
TYPE OF SUBMISSION		Т	YPE OF ACTION		
✓ NOTICE OF INTENT	IZE	DEEPEN	<u>-</u>	REPERFORATE CURRENT FORMATION	
	R CASING	FRACTURE		SIDETRACK TO REPAIR WELL TEMPORARILY ABANDON	
	NG REPAIR	OPERATOR	TRUCTION	TUBING REPAIR	
	NGE TO PREVIOUS PLANS	PLUG AND		VENT OR FLARE	
	NGE WELL NAME	PLUG BACH		WATER DISPOSAL	
(Submit Original Form Only)	NGE WELL STATUS	PRODUCTION	ON (START/RESUME)	WATER SHUT-OFF	
Date of work completion:	MINGLE PRODUCING FORMATIONS	RECLAMAT	ION OF WELL SITE	OTHER:	
CON	VERT WELL TYPE	RECOMPLE	ETE - DIFFERENT FORMATION		
12. DESCRIBE PROPOSED OR COMPLETED	OPERATIONS. Clearly show al	I pertinent details in	cluding dates, depths, volume	es, etc.	
SYNERGY SUBMITTED THIS SUI OF THE MIT TEST FAILURE.					
SYNERGY NEVER RECEIVED A HAVE BEEN SENT INTO THE STA	RESPONSE FROM TH ATE DOGM.	HE BLM AND	THEN NOTED THAT	THIS SUNDRY SHOULD	
A SUBSEQUENT SUNDRY WITH	WORK COMPLETED	WILL FOLLO	<b>N</b> .		
THE WELL HAS BEEN WITNESSI PER MONTH.	ED BY DOGM PERSO	NNEL AND IS	ACTIVELY INJECT	ING A COUPLE OF DAYS	
PLEASE CONTACT TOM MULLIN	IS @ SYNERGY (505)	566-3725 TO	DIRECTLY ANSWE	R ANY QUESTIONS.	
				COPY SENT TO OPERATOR Date: 12/07/06 Initials: CHO	
Thomas E. Mullins	. /	тіп	Engineering Man	ager	
NAME (PLEASE PRINT)		DA1	11/28/2006		
SIGNATURE W	<i>'V</i>	DAT			
(This space for State use only)  Accepted to Utah Divisi				RECEIVED	
Oil, Gas and			•	DEC 0 1 2006	
- 17 7/18	$\sim$			DEC 0 1 2000	

(5/2000)

Date: 17-24-06

(See Instructions on Reverse Side)

DIV. OF OIL, GAS & MINING

UNITED STATES FORM APPROVED DEPARTMENT OF THE INTERIOR Budget Bureau No. 1004-0135 Form 3160-5 **BUREAU OF LAND MANAGEMENT** Expires March 31, 1993 (June 1990) 5. Lease Designation and Serial No. SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to deepen or reentry to a different reservoir Fee 6. If Indian, Allottee or Tribe Name Use "APPLICATION FOR PERMIT -" for such proposals SUBMIT IN TRIPLICATE 7. If Unit or CA, Agreement Designation 1. Type of Well Other Salt Water Disposal Oil Well Gas Well 8. Well Name and No. 2. Name of Operator Bug # 12 Synergy Operating, LLC (N2795) 9. API Well No. 3. Address and Telephone No. 43-037-30595 (505) 325-5549 PO Box 5513 Farmington, NM 87499 10. Field and Pool, or Exploratory 4. Location of Well (Footage, Sec, T. R., M, or Survey Description) Bug Field (Ismay/Desert Creek) Unit C, 583' FNL, 1928' FWL, Sec 21, T36S - R26E 11. County or Parish, State San Juan County Utah 12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF ACTION TYPE OF SUBMISSION Abandoment Change of Plans Notice of Intent **New Construction** Recompletion Non-Routine Fracturing Plugging Back Subsequent Report Water Shut-Off Casing Repair Conversion to Injection Altering Casing Final Abandonment Notice Dispose Water Other (Note: Report results of multiple complete Completion or recompletion Report and Log Form) 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including, estimated date of starting work. if well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones of pertinent to this work. SYNERGY OPERATING, LLC HAS ACQUIRED OPERATIONS OF THE SUBJECT WATER DISPOSAL WELL. SYNERGY ACQUIRED OPERATIONS EFFECTIVE 08-01-2005. SYNERGY HAS NOT DISPOSED OF ANY WATER, SINCE ACQUISITION OF THE WELL. ON FEBRUARY 24, 2006, THIS WELLBORE FAILED ITS PKR LEAKAGE TEST WITNESSED BY MR. BART KETTLE OF THE UTAH DIVISION OF OIL GAS AND MINING. THE TUBING WAS FOUND TO BE IN COMMUNICATION WITH THE CASING. SYNERGY PROPOSES TO REMOVE THE MODEL R PRODUCTION INJECTION PKR ON THE SUBJECT WELL. TEST THE 5-1/2" CASING TO 1000#. INSTALL A CEMENT RETAINER AT 6140'+/- IN THE 5-1/2" CASING REPLACE ANY 3-1/2" TUBING FOUND TO CONTAIN HOLES. TEST THE TUBING STRING AGAIN INTO THE WELL. RELAND AND TEST THE TUBING STRING TO 2000#. TEST THE CASING TO 1000#. HAVE THE STATE OF UTAH - REWITNESS THE MECHANICAL INTEGRITY TEST AND RETURN THE WELLBORE TO ACTIVE WATER DISPOSAL. THE LAST WATER DISPOSAL INT# THE SUBJECT WELL OCCURRED IN CALENDAR YEAR 2003. 14. I hereby certify that the fo egoing is true and corre

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, ficticious, or fraudulent statements or representations as to any matter within its jurisdiction

Title:

Signed:

Approved by:

Conditions of approval if any

Thomas E. Mullins

This space for federal or state office use

Date:

Date:

Telephone: (505) 566-3725

Engineering Manager

4-15-2006

# SYNERGY OPERATING, LLC Farmington, NM

# PROCEDURE TO: REPAIR THE SALT WATER DISPOSAL WELL

### Bug # 12

Safe operations are of utmost importance at all Synergy Operating LLC properties and facilities. To further this goal, the Supervisor and/or Rig Toolpusher at the location shall request tourly safety meetings prior to initiation of work, following each change in tour (to review all operations projected during the tour), and also prior to any critical operations. These safety meetings shall be attended by all Company, contract and service personnel then present at the location. All parties shall review proposed upcoming steps, procedures and potentially hazardous situations. Occurrence of these meetings shall be recorded in the Daily Report.

All personnel arriving on location shall check in with wellsite supervisor.

Hard hats, safety glasses and hard-soled shoes will be worn on location.

No Smoking is allowed on Location. Wellsite supervisor will set up a designated smoking area. No individual should have matches, lighters, pipes, cigarettes, or cigars on his person within 150 feet of the well.

All practices and guidelines contained in the MMS Onshore Well Control Manual are to be followed unless written exceptions are provided.

<u>Pre-job Planning and Notes:</u> Notify on-site company supervisor of any unsafe conditions or potential hazards prior to commencing work.

### **Driving Directions:**

Go North on US Hwy 491 to Dove Creek, travel just through Dove Creek and turn Left/West onto the Road 7 (Connie's Blue Mountain Café is on the right side on Hwy 491). Travel 0.1-miles & turn right on Road H, travel 0.9-miles then turn left on Road 6, travel 5.3-miles on the main road and then the road turns to the right onto Road P, travel 5.1-miles and turn left on Road 2, travel 1.0-miles and turn right onto Road S, travel another 1.2-miles turning left, then 0.1-miles turning right onto Utah Road 347, travel another 0.8-miles to the Bug Field Battery 'C'.

Travel 0.8 miles (Straight Ahead) on Utah Road 347. Veer Left, Travel 0.1 miles, turn Left again, travel 0.1 miles to Bug # 12 Location, in the middle of the field. Just the wellhead is present.

This is Private Surface is believed to be owned by James C. Wright. Be respectful of the property.

fin

## PROCEDURE TO: REPAIR THE SALT WATER DISPOSAL WELL

### Bug # 12

**NOTE:** All depths are referenced to a KB elevation.

9-5/8" 36# & 47# K-55 @ 2039', 940 sxs, Circulated Cmt to Surface

5-1/2" 17# K-55 Casing @ 6362' (Original PBTD @ 6328')

3-1/2" 9.2# J-55 SEAL LOCK Tubing @ 6141.36'

Baker 5-1/2" Model R-3 Double Grip Packer (7.00'), 2-7/8" EUE x 3-1/2" EUE X-O (0.20'), 3-1/2" EUE coupling (0.47'), 3-1/2" EUE x 3-1/2" SEAL LOCK X-O (0.20'), 3-1/2" SEAL LOCK coupling (0.61'), 184 Jts 3-1/2" 9.2# J-55 SEAL LOCK Tubing (5360.53'), 26 Jts 3-1/2" 9.2# J-55 SEAL LOCK w/Slimhole Collars, NSCo. DP4-H-1 Tubing Hanger. Landed in 15K Compression.

PKR @ 6141' KB

Lower Ismay Perfs @ 6162' to 6175' (13' - 2 SPF = 26 holes)

Desert Creek Perfs @ 6295' to 6318' (23' - 45 holes)

11.0 ppg brine water on annulus side.

- Have Contractors make necessary Utah One-Call prior to any work. Synergy detect and mark necessary company lines.
- 2. Obtain Necessary Colorado and Utah Permits. Comply with all BLM and UDOGM rules and regulations.
- 3. RU flowback tank to Blow-down the well. Blow Down Well.
- 4. Test Anchors. (Done)
- 5. MIRU Well Service Rig and Auxiliary equipment.
- 6. Record SICP, SITP, & Bradenhead Pressure.
- 7. ND WH. NU 7-1/16" Diverter spool & 7-1/16" 3000# BOPE.
- 8. Use 3-1/2" Slip Grip Elevators (Baker Supplied).
- 9. Release Model R-3 PKR @ 6141'.
- 10. COOH w/ 3-1/2" 9.2# Seal Lock Tubing string from 6141' (210 Jts). Visually inspect tubing for leaks and scale. Pump Fresh Water down tubing if necessary.
- 11. LD PKR.
- 12. Haul Items (Box and Pin) into Farmington to Machine Shop. Cut two (2) change-overs, pins and boxes, back to 3-1/2" EUE 8rd from 3-1/2" Seal Lock thread. SDFN, while threads are cut. Gene Longaker (Downhole Tools Machine Shop) has cut threads for 2-3/8" pipe.
- 13. MU 4-3/4" Bit & 5-1/2" Scraper to 6140'. GIH on 3-1/2" tubing. COOH.
- 14. MU 5-1/2" Baker Cement Retainer w/ setting tool on 3-1/2" tubing.
- 15. GIH and set 5-1/2" retainer at 6140'+/-. NOTE SPACE OUT LANDING DEPTH PROPERLY.
- 16. Load tubing and casing. Test Tubing string and casing string to 1000# each. Independently verify casing and tubing have tested.
- 17. COOH w/ setting tool from 6140'. LD setting tool.
- 18. MU "Poor Boy" stinger and GIH on 3-1/2" tubing string as follows: Run 2-7/8" stinger (seal assembly), 2.25" F-Nipple, X-O from 2-7/8" EUE to 3-1/2" EUE, 3-1/2" EUE collar, 2.81" F-Nipple, then X-O from 3-1/2" EUE to 3-1/2" SEAL LOCK thread, then 3-1/2" SEAL LOCK tubing.
- 19. Land tubing in compression. Have 3-1/2" EUE tubing subs 2', 4', & 6' on location,

Win

along with recently built cross-overs.

20. Land Hanger.

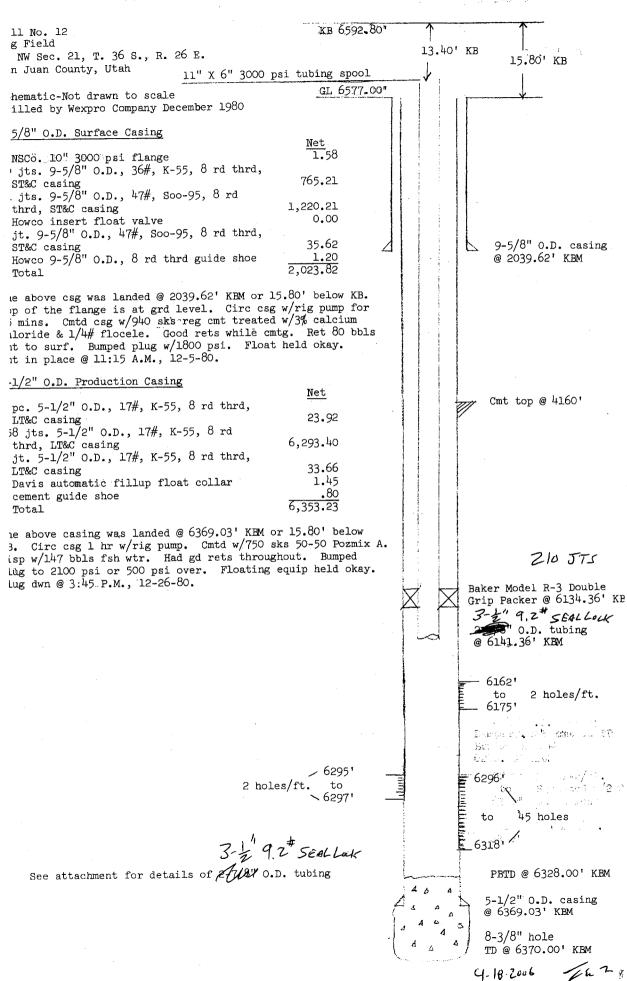
21. PRESSURE TEST ANNULUS TO 1000#. HOLD PRESSURE 30 minutes. Supervisor must witness test and certify for State of Utah approval.

22. ND BOPE, NU Wellhead.

- 23. Establish rate with Rig Pump, pumping tubing capacity. Monitor annulus to ensure no communication.
- 24. Commence Water Disposal into Ismay (6162' to 6175') and Desert Creek (6295' to 6318') perforations below Permanent Cement Retainer at 6140'.
- 25. Contact State of Utah, Division of Oil, Gas, and Mining, to confirm permission to dispose of fluids.
- 26. Commence injection.
- 27. Report results to partners.

TEM 04-18-2006

Hen



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES

I	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee									
SUNDRY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:									
	7. UNIT of CA AGREEMENT NAME:									
Do not use this form for proposals to drill ne drill horizontal la	ew wells, significantly deepen of terais. Use APPLICATION FC		orm for such proposa Salt Water Di		8. WELL NAME and NUMBER:					
1. TYPE OF WELL OIL WELL	Bug # 12									
2. NAME OF OPERATOR:	9. API NUMBER:									
Synergy Operating, LLC	4303730595  10. FIELD AND POOL, OR WILDCAT:									
3. ADDRESS OF OPERATOR: PO Box 5513	Farmington	STATE NM ZIP	87499	PHONE NUMBER: (505) 325-5449	Bug Field (Ismay/Desert Creek)					
4. LOCATION OF WELL FOOTAGES AT SURFACE: Unit C	583' FNL, 1928' F	WL Sec 21, T	36S R26E		COUNTY: San Juan					
QTRAQTR, SECTION, TOWNSHIP, RANGE	STATE: UTAH									
11. CHECK APPE	ROPRIATE BOXES	S TO INDICAT	E NATURE	OF NOTICE, REPO	ORT, OR OTHER DATA					
TYPE OF SUBMISSION			Ť	YPE OF ACTION						
NOTICE OF INTENT	ACIDIZE		DEEPEN		REPERFORATE CURRENT FORMATION					
(Submit in Duplicate)	ALTER CASING		FRACTURE		SIDETRACK TO REPAIR WELL  TEMPORARILY ABANDON					
Approximate date work will start:	CASING REPAIR		☐ NEW CONS		TUBING REPAIR					
	CHANGE TO PREVIO	OUS PLANS	OPERATOR PLUG AND		VENT OR FLARE					
SUBSEQUENT REPORT	CHANGE TUBING	E	PLUG BACK		WATER DISPOSAL					
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAM			` ON (START/RESUME)	WATER SHUT-OFF					
Date of work completion:		JCING FORMATIONS	=	ION OF WELL SITE	OTHER:					
4/26/2006	CONVERT WELL TY		RECOMPLE	TE - DIFFERENT FORMATION						
DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  SYNERGY HAS COMPLETED THE FOLLOWING WORK ON THE SUBJECT WELL.  SEE ATTACHED DAILY WORKOVER RIG INFORMATION.  THE WELL HAS BEEN RETESTED BY DOGM PERSONEL AND IS IN USE.										
Accepted by the  Utah Division of  Oil, Gas and Mining										
		2	Date:	La Constant						
	- A. W. 11:			Engineering Ms	nager (2nd Sundry Same Day)					
NAME (PLEASE PRINT) Thomas E. Müllins- TITLE Engineering Manager (2nd Sundry Same Day)										
SIGNATURE	s W/		DA	11/28/2006						
/This enges for State use only)										

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REPORT ON WORKOVER RIG FOR SYNERGY BUG #12 WATER DISPOSAL WELL

ATT: TOM MULLINS

April 19, 2006

Rig on location. Rigged up.

April 20, 2006

Nipple down well head, nipple up Bop's. All bolts tight & rusty. Come out of hole with pipe, found 13 bad joints, pins washed out one joint, hole in middle of joint.

April 22, 2006

Picked up scraper & ran in hole. Layed down 10 bad joints. Picked up 12 joints to run scraper past where packer was set. Layed down 2 joints, came out of hole alternating joints to check all pins. Found 2 bad pins. Layed down & shut well in.

April 24, 2006

Pulled remaining tubing. Layed down 1 more joint. Layed down scraper. Picked up retainer, ran in hole with retainer test tubing @ 2000#. Slow leak possible. Collars came out of hole. Shut well in. JET RETAWERE 6140'

April 25, 2006

Picked up bottom hole assembly. Tested in hole every 10 stands. Found 2 bad collars. Ran 2 7/8 standing valve. Tested tubing @ 2000#, held. Tested casing @ 1000#.

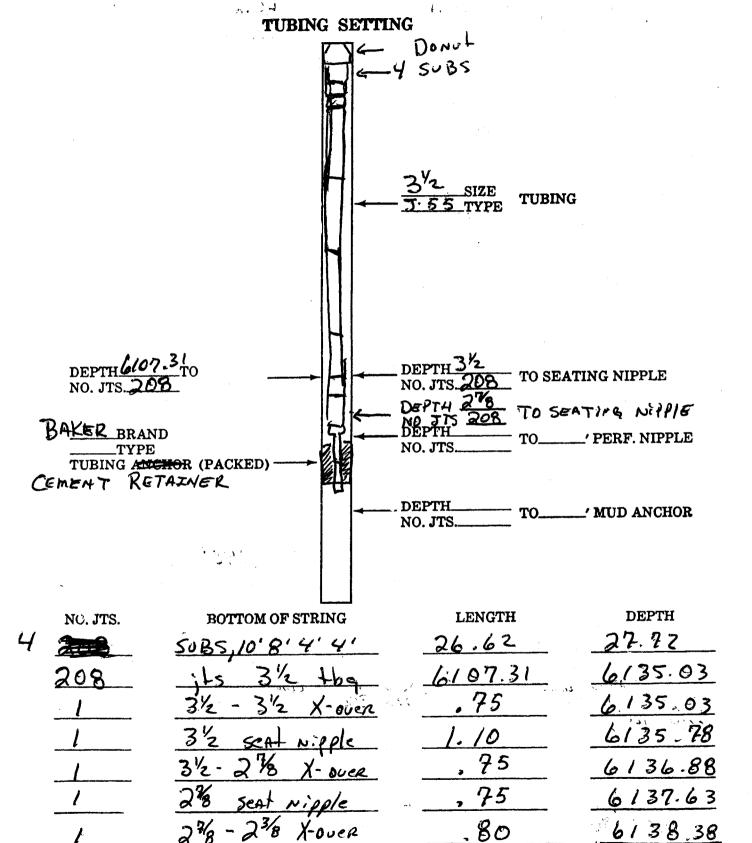
April 26, 2006

Baker Oil Tools stabbed into retainer, checked spacing. pulled loose from retainer, circulated packer fluid. Reset well with 15,500# on retainer. Nippled up well. Tested casing again @ 1300#. Rigged down & moved to Bug #13 well.

Robert Knuckles Knuckles Pumping Service

# WELL SERVICE REPORT

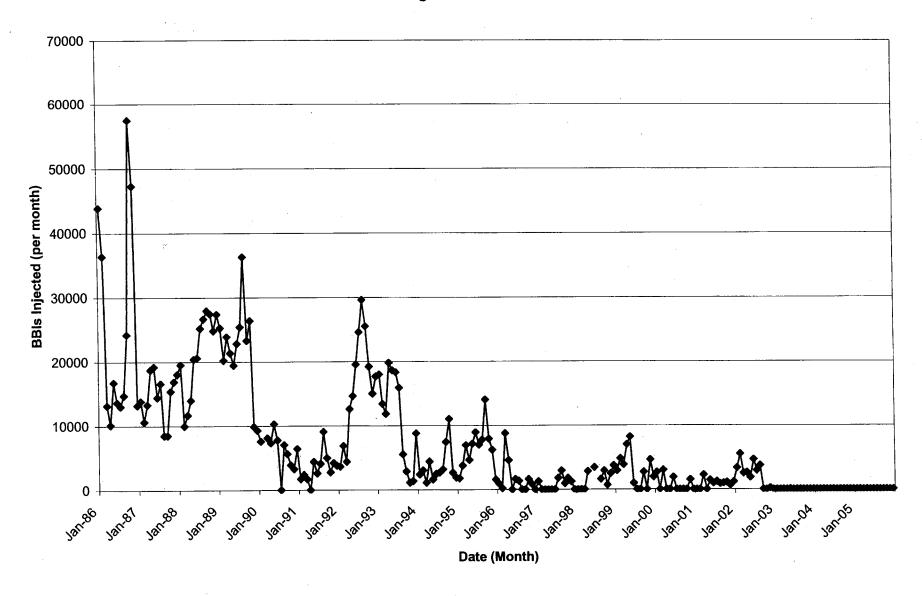
FIELD SUNERGY BUG DOINT WELL NO. BUG WELL # 12
NATURE OF JOB: [ ] ROD [ ] ROD & TUBING [X] TUBING
[ ] FISH RODS—PARTED IN [ ] BODY [ ] BOX [ ] PIN
CAUSE OF FAILURE: [ ] CORROSION [ ] WEAR [ ] OTHER
DEPTH OF FAILURE
[ ] TUBING LEAK [ ] COUPLING [ ] SPLIT [ ] HOLE
CAUSE OF FAILURE: [ ] CORROSION [ ] WEAR [ ] PARTED [ ] OTHER
DEPTH OF FAILURE
[ ] PUMP REPAIR [ ] VALVE REPAIR [ ] REPLACE BBL. [ ] REPLACE PLUNGER
[ ] SAND [ ] BAILED [ ] WASHED [ ] TOP [ ] BOTTOM
[ ] STRIPPING JOB—CAUSE: [ ] SAND [ ] PARAFFIN [ ] OTHER
[ ] OTHER (DESCRIBE UNDER REMARKS)
ROD SIZE NO. RODS TYPE BOX MAKE & GRADE NEW USED
NOD DIAD TO THE TOTAL OF THE TO
(SEE REVERSE SIDE FOR TUBING INFORMATION)
TOTAL LENGTH: ROD STRING 52 TUBING 61 70  PARAFFIN [] NONE [] MODERATE [] SEVERE
PARAFFIN [ ] NONE [ ] MODERATE [ ] SEVERE CORROSION [ ] NONE [ ] MODERATE [ ] SEVERE
SCALE [ ] NONE [ ] MODERATE [ ] SEVERE
HOLD DOWN [ ] MECHANICAL [ ] CUP [ ] TOP [ ] BOTTOM  BUMP REMOVED
PUMP REMOVEDNONONO
OTHER EQUIP. (INSTALLED OR REMOVED)
REMARKS LAND well with 15,000 165 Compression
Land well In don't.
LSSPM
TRACTOR # HRS TBG TONGS # HRS
OTHER DISTRICT TOOLS NO MAN HPS
CREW HRSNO. MENNO. MAN HRS CONTRACTOR_BHWSHRS WORKED
DATE APCI 26th 2006 M SIGNED Bill Hally
FOREMANDATE



1.62

6140'

Bug # 12 - SWD



# **STATE OF UTAH**

			5. LEA	SE DESIGNATION AND SERIAL NUMBER:							
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:									
SUNDRY NOTICES AND REPORTS ON WELLS								6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
Do	not use this form for proposals to drill no drill horizontal la	7. UNIT or CA AGREEMENT NAME:									
1. T	YPE OF WELL OIL WELL		8. WELL NAME and NUMBER: Bug #12								
	AME OF OPERATOR:		9. API NUMBER:								
	nergy Operating LLC	NUMBER:		3730595 ELD AND POOL, OR WILDCAT:							
P.C	O. Box 5513	) 325-5449	Bug Field (Ismay/Desert Creek)								
4. LOCATION OF WELL  FOOTAGES AT SURFACE: 583' FNL & 1928' FWL  COUNTY: San Juan											
Q	TR/QTR, SECTION, TOWNSHIP, RANG		STATE: UTAH								
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA											
	TYPE OF SUBMISSION	Γ			TYPE OF	ACTION .					
Z	NOTICE OF INTENT		ACIDIZE		DEEPEN			REPERFORATE CURRENT FORMATION			
	(Submit in Duplicate)	ΙĒ	ALTER CASING		FRACTURE TREAT			SIDETRACK TO REPAIR WELL			
	Approximate date work will start:		CASING REPAIR		NEW CONSTRUCTIO			TEMPORARILY ABANDON			
		Ľ	CHANGE TO PREVIOUS PLANS	Ц	OPERATOR CHANGI		Ш	TUBING REPAIR			
		ľ	CHANGE TUBING	Ц	PLUG AND ABANDO	N		VENT OR FLARE			
Ц	SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion:	IL	CHANGE WELL NAME	닏	PLUG BACK		<u>~</u>	WATER DISPOSAL			
		먇	CHANGE WELL STATUS	닏	PRODUCTION (STAF		Ц	WATER SHUT-OFF			
		ŀ	COMMINGLE PRODUCING FORMATIONS	님	RECLAMATION OF V	1	V	OTHER: Add wells			
		<u>ا</u> لـ	CONVERT WELL TYPE	<u>Ц</u>	RECOMPLETE - DIFF	FERENT FORMATION					
Synergy Operating is requesting permission to allow disposal of non-unit water into the Bug #12 SWD well. Specifically, we are requesting permission to haul produced water from wells in the Bug Field vicinity, operated by D.J. Simmons Inc., to the Bug #12 SWD well. Synergy will perform water compatibility tests with the waters to ensure injectivity and prevent damage to the disposal equipment and formation.  Verbal approved of said request was obtained via telephone from Dan Jarvis at the Utah Division of Oil, Gas and Mining on Thursday, August 16, 2007.											
Oil, Gas and Mining											
Date: 8/21/01  By: 040											
NAM	RE (PLEASE PRINT) Glen O.	Pa	арр		TITLE (	Operations Man	ager				
	vature	_	- O Tay			16/2007					

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AUG 2 1 2007



# State of Utah

### DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

Division of Oil, Gas and Mining JOHN R. BAZA

Division Director

Feb 13, 2012

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21

Synergy Operating, LLC P.O. Box 5516 Farmington, NM 87499

SUBJECT:

Pressure Test for Mechanical Integrity, Bug 12, San Juan County, Utah:

To Whom It May Concern:

The Underground Injection Control Program, which the Division of Oil, Gas and Mining (DOGM) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. Rule R649-5-5.3 of the Oil and Gas Conservation General Rules requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is lesser, provided that no test pressure is less than 300 psi. This test shall be performed at least every five-year period beginning October 1982. The following wells now require a current test:

Bug 12

4303730595

Please make arrangements and ready wells for testing during the week of April 2012, as outlined below:

- Operator must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), along with personnel to assist in opening valves, etc.
- The casing-tubing annulus shall be filled prior to the test date to expedite testing, as each well will be required to hold pressure for a minimum of 15 minutes.
- If mechanical difficulties or workover operations make it impossible for the well(s) to be tested on this date the test(s) may be rescheduled.
- Company personnel should meet a DOGM representative(s) at the field office or other location as negotiated.



Page 2 February 13, 2012 Synergy Operating LLC

5. All bradenhead valves with exception of the tubing on the injection well(s) must be shut-in 24 hours prior to testing.

Please contact me at (435) 820-0862 to arrange a meeting time and place or to negotiate a different date, if the date(s) specified is unacceptable.

Sincerely,

Bart Kettle

**Environmental Scientist** 

bk/dj/js

cc: Dan Jarvis, Operations Manager Well File